



EduMetrix

High-Level Feasibility Study

Submitted to:

The Ministry of Digital Economy and Entrepreneurship

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Founders and investors considering this project are advised to conduct further analysis on projected adoption rates, development costs, and ongoing operational expenses. This additional scrutiny will help mitigate potential risks related to technology challenges, changes in regulations, market penetration, and competitive pressures.

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A National Entrepreneurship Policy Project



Ministry of Digital Economy
and Entrepreneurship



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Executive Summary

Higher education in the MENA region is grappling with significant challenges, including skill mismatches, financial constraints affecting resource allocation, and the necessity for technological integration. Edumetrix, a startup leveraging AI and analytics, seeks to address these issues by enhancing educational management and learning processes. This executive summary provides an overview of the feasibility study for Edumetrix, highlighting its potential to transform the education sector.

The global edtech market is on a trajectory of substantial growth, with projections estimating it will reach USD 348 billion by 2030, driven by advancements in AI and predictive analytics. In the MENA region, the edtech market is expected to expand from USD 5,632 million in 2022 to USD 11,249 million by 2030. This growth is propelled by increasing internet and smartphone penetration, a youthful population, and a rising demand for quality education. Key market trends include blended learning, social and emotional learning, and the utilization of data analytics to enhance educational outcomes.

Edumetrix offers a comprehensive suite of AI-powered tools designed to optimize higher education operations and enrich learning experiences. The platform's core functionalities include predictive analytics for enrolment and resource management, AI-assisted teaching support, and personalized student interventions. These solutions enable educational institutions to make informed decisions, streamline operations, and provide customized learning journeys.

Edumetrix employs a B2B model, targeting higher education institutions with three primary revenue streams: subscription-based plans that grant access to advanced analytics and automation tools, licensing fees for customizable software and AI algorithms tailored to institutional requirements, and consultancy services that deliver strategic guidance and training for implementing data-driven solutions.

The financial analysis reveals growth potential with projected revenues rising from JOD 212,000 in the first year to JOD 1,176,000 by the fifth year. Sensitivity analysis indicates the project's resilience to adverse market conditions, showing viability across various scenarios.

Despite challenges such as high operational costs and data security risks, Edumetrix is positioned to generate impact on the educational technology sector in the MENA region.

I. Introduction

Higher education in the MENA region faces several key challenges that Edumetrix aims to address such as the skill mismatch, resource allocation due to financial constraints and integration of technology. To overcome these challenges, a modern and flexible education system is needed, one that emphasizes digital skills, modernized pedagogy, new forms of

assessments, and the leveraging of technology. AI technology can significantly enhance learning experiences, increase efficiency, and provide easier access to academic and administrative tools.

Edumetrix is a start-up that leverages AI and analytics to enhance higher education management and learning processes. By focusing on operational efficiency and personalized student learning, Edumetrix empowers institutions to make data-driven decisions and improve educational outcomes. Through a phased approach, the platform will use predictive analytics for enrolment, resource management, AI-assisted teaching support, and individualized student interventions, ensuring institutions can optimize their operations and provide a superior learning experience.

2. Market Analysis

According to Research & Markets, the global education technology market size is expected to reach USD 348 billion by 2030, growing at a CAGR of 13.4% from 2024 to 2030¹. This surge is fuelled by advancements in AI, machine learning, and predictive analytics, which are transforming how educational institutions operate and how students learn.

According to Verified Market Research, the Middle East EdTech Market size was valued at USD 5,632 million in 2022 and is projected to reach USD 11,249 million by 2030, growing at a CAGR of 9.14% from 2024 to 2030². This growth is supported by the increasing penetration of smartphones and the internet, a rising young population, and the growing demand for quality education. The region's governments and private sectors are recognizing the potential of technology to enhance education and bridge gaps in access to learning opportunities.

Key trends driving the EdTech market in MENA include blended learning, social and emotional learning, and the use of analytics and data to improve educational outcomes. There is also a notable rise in gamification and gamified learning to engage and motivate students. Additionally, the market has seen the emergence of several EdTech start-ups, such as Nafham, TeachMeNow, Noon Academy, Abwaab and Alef Education, focusing on various aspects like exam preparation, language learning, skills development, and e-learning platforms.

Higher education institutions in the MENA region are poised to experience transformation in alignment with national visions like Saudi Arabia's Vision 2030 and Jordan's Economic Modernization Vision. For instance, the demand for higher education in Saudi Arabia alone is projected to increase from an estimated 1.97 million seats in 2022 to 2.8 million seats by 2030. This reflects the need for an additional 900,000 seats,³ highlighting the growing importance of enhancing educational infrastructure and adopting advanced technologies to meet future educational demands.

In terms of AI and predictive analytics, the global AI in Education market was valued at USD 1,766.7 million in 2023 and is anticipated to reach USD 17,280 million by 2030, witnessing a CAGR of 37.2% during the forecast period 2024-2032⁴. These technologies are being

1 <https://www.researchandmarkets.com/reports/5415585/global-education-technology-market-size-share-and#:~:text=Education%20Technology%20Market%20Growth%20%26%20Trends,line%20with%20advances%20in%20technology.>

2 <https://www.verifiedmarketresearch.com/product/middle-east-edtech-market/>

3 <https://www.colliers.com/en-ae/research/overview-of-higher-education-market-in-ksa>

4 <https://www.linkedin.com/pulse/ai-education-market-size-us-17280-million-lybce>

increasingly utilized to personalize learning experiences, automate administrative tasks, and provide real-time insights into student performance and institutional operations.

In the MENA region, higher education institutions will increasingly start adopting AI to enhance operational efficiency and improve educational outcomes. The number of students enrolled in universities across the region is substantial given the youthful population. For example, in Saudi Arabia, a total of 1.72 million students out of 3.5 million population between the age group of 18-24 years, were enrolled with higher education institutes across Saudi Arabia in 2019 (Colliers estimate enrolment of 1.97 million in 2022)⁵ and Egypt boasting 3.5 million students in 2022, expected to grow to 5.6 million by 2032 according to the Ministry of Education⁶.

These trends and statistics highlight the potential and the critical role of EdTech, AI, and predictive analytics in transforming higher education in the MENA region, creating a fertile ground for start-ups like Edumetrix to thrive and contribute to the advancement of the educational ecosystem in the region.

3. Business Model

Edumetrix's revenue model is designed to accommodate the diverse needs of higher education institutions, ensuring flexibility and scalability. Edumetrix will operate on a B2B model, targeting higher education institutions within the MENA region and potentially beyond through offering three main services:

Subscription-Based Model: Edumetrix offers tiered subscription plans designed to meet the diverse needs of higher education institutions. These plans provide varying levels of access to advanced data analytics tools, predictive modeling features, and automation solutions. By subscribing to Edumetrix, institutions can choose the package that best fits their requirements and budget. This model ensures flexibility and scalability, allowing universities to enhance their operational efficiency and personalize student learning experiences effectively. Subscriptions can range from basic access for smaller institutions to comprehensive packages for large universities requiring extensive data integration and analytics capabilities. Edumetrix will experiment with the best pricing strategy for this revenue stream, deciding whether it should be based on subscription fee per student or module with tiered cohorts or user numbers.

Licensing Fees: Edumetrix provides its proprietary software and AI algorithms through a licensing model tailored to the specific needs and scale of each educational institution. This approach ensures that universities can fully integrate Edumetrix's advanced technologies into their existing systems. Licensing fees are structured based on the extent of usage and the customization required by the institution. This model allows Edumetrix to offer its cutting-edge solutions to a broad range of universities, from small colleges to large research institutions, enabling them to leverage AI and predictive analytics to optimize their educational processes and outcomes. The fees are typically structured in a way that promotes multi-year commitment against a cheaper price than short-term licensing.

⁵ <https://argaamplus.s3.amazonaws.com/145fe9ce-36a1-455f-bc8f-ebe24101c636.pdf>

⁶ <https://www.trade.gov/country-commercial-guides/egypt-education-and-training-services-industry-snapshot#:~:text=Regarding%20higher%20education%2C%20in%20total,to%205.6%20million%20by%202032.>

Consultancy Services: Edumetrix also offers expert consultancy services to educational administrators. These services include providing strategic guidance, training, and support for implementing data-driven solutions and building a digital infrastructure that integrates various tools without the need to reinvent the wheel or replicate efforts or investments. The consultancy team works closely with institutions to maximize the impact of Edumetrix’s platform and other AI tools, helping them to fully realize the potential of AI and analytics in enhancing teaching and learning. This bespoke support ensures that universities can effectively address challenges such as high dropout rates and varying student performance levels through targeted interventions and data-informed decision-making. It is especially relevant to universities running on a budget and aiming to benefit from open-source platforms and tools.

This ambitious business model has been built in a manner that enables a steady revenue stream through recurring payments from the subscription-based service, while licensing fees offer substantial income from the deployment of proprietary technologies. Consultancy services generate additional revenue by providing high-value expertise and support tailored to the unique challenges faced by each institution. EduMetrix can work directly with universities and higher education institutions to sell the licensing and consultancies services, or work with government and donor-funded educational reform and modernization projects to subsidize them. This multifaceted approach enables Edumetrix to support the educational sector's evolving needs, driving improved outcomes and operational efficiency across the MENA region and beyond while also ensuring it’s a lucrative business.

Substantial initial testing and work is needed before the official launch of the start-up. Once the demand has been verified and the MVP is deemed successful, EduMetrix can ramp up on further investing in creating its technology and refining its services to meet the ambitious targets for year 1 from the official launch projected at JOD 212,000 and expected to grow to JOD 1,176,000 in year 5.

Itemised revenues and total annual revenues are summarized in the table below:

Table 1: Revenue projection

Description / Year	1	2	3	4	5
Projected Demand (Quantity) Subscriptions	24	36	48	60	72
Price / Unit Subscriptions	3,000	3,000	3,000	3,000	3,000
Sub-total Subscriptions	72,000	108,000	144,000	180,000	216,000
Projected Demand (Quantity) Licensing Fees	4	8	14	20	25
Price / Unit Licensing Fees	25,000	25,000	25,000	30,000	30,000
Sub-total Licensing Fees	100,000	200,000	350,000	600,000	750,000
Projected Demand (Quantity) Consultancies	4	8	12	18	21
Price / Unit Consultancies	10,000	10,000	10,000	10,000	10,000
Sub-total Consultancies	40,000	80,000	120,000	180,000	210,000
Total Revenues	212,000	388,000	614,000	960,000	1,176,000

The following charts show the product mix by revenue and by quantity. The analysis reveals a practical distribution between the three revenue streams, both in terms of quantity and revenue.

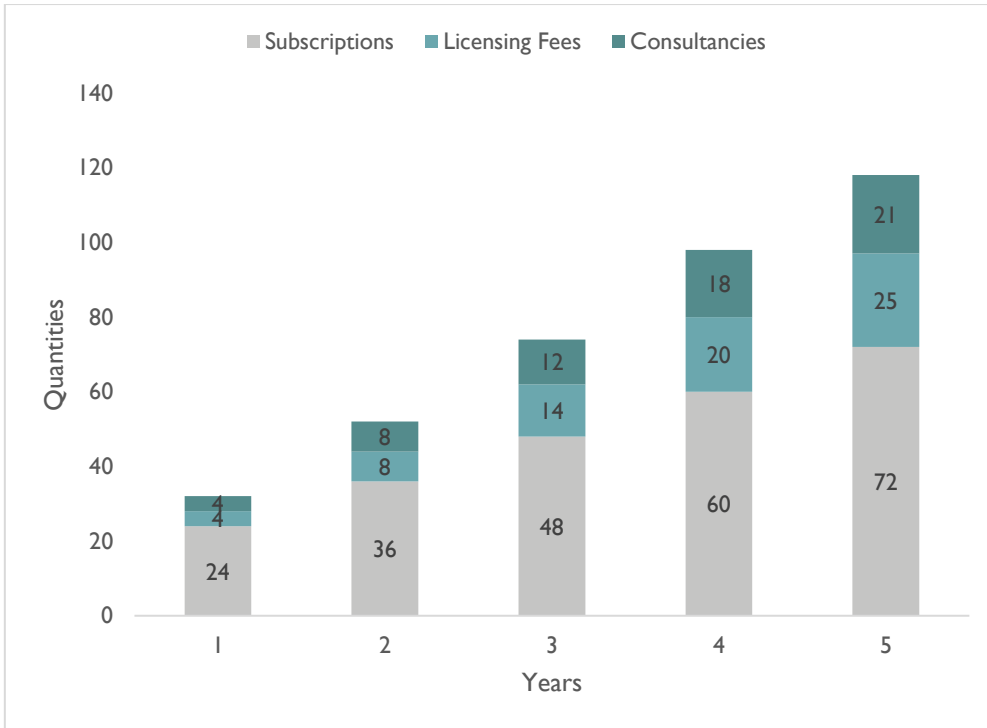


Figure 1: Product Mix by Quantity

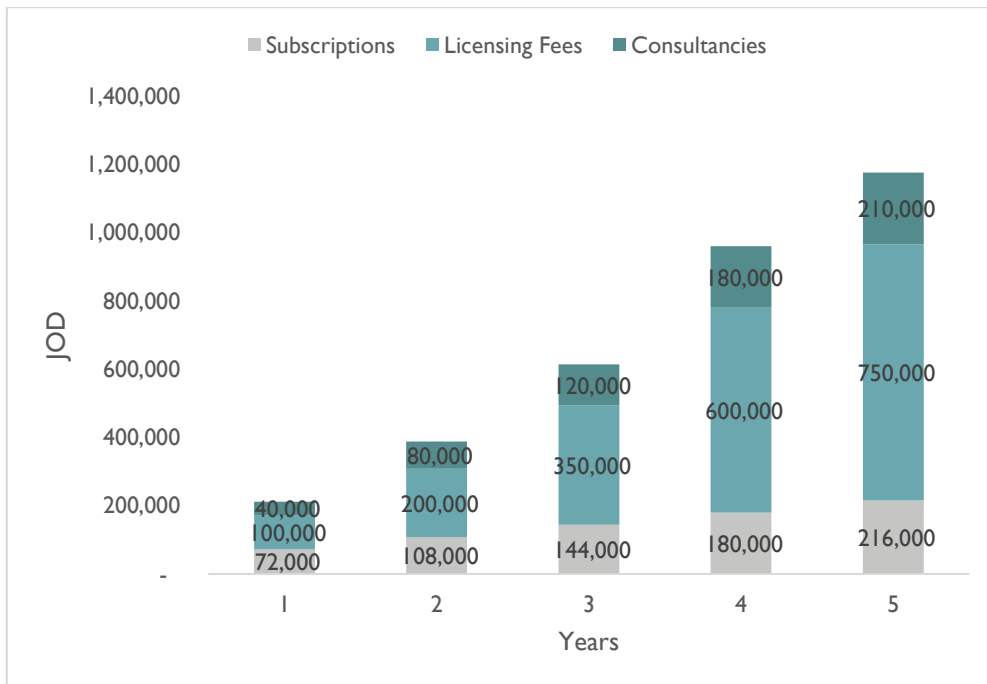


Figure 2: Product Mix by Revenue

4. Technical Analysis

The cost of goods sold (COGS) for each service are aligned with the quantity demanded, showing controlled costs across the services and primarily cover the compensation fees for the hired employees.

- Subscription Based Model: there are no COGS associated with this service.
- Licensing Fees: COGS are 20% of this revenue stream over the first five years.
- Consulting Services: s COGS at 20% of this revenue stream over the first five years

The total COGS increased from JOD2 8,000 in Year 1 to JOD 167,000 in Year 5, which is a proportional increase relative to the growth in revenue, the table below outlines the projected COGS over five years:

Table 2 Cost of Goods Sold – Five Year Projection

Description / Year	1	2	3	4	5
Projected Demand (Quantity) Therapy services	24	36	48	60	72
COGS / Unit Therapy services					
Sub-total Therapy services	-	-	-	-	-
Projected Demand (Quantity) Workshops for Educators and Parents	4	8	14	20	25
COGS / Unit Workshops for Educators and Parents	5,000	5,000	5,000	5,000	5,000
Sub-total Workshops for Educators and Parents	20,000	40,000	70,000	100,000	125,000
Projected Demand (Quantity) Consultancies	4	8	12	18	21
COGS / Unit Consultancies	2,000	2,000	2,000	2,000	2,000
Sub-total Consultancies	8,000	16,000	24,000	36,000	42,000
Total COGS	28,000	56,000	94,000	136,000	167,000

Team composition doubles in year 2 from 5 employees to 10, and then grows moderately in year 4, to 12 and in year 5 to 13. Starting with the CEO (who is expected to also play the role of the CTO in later years but in year one should equally be focused on business development), a Lead Engineer, a Senior Developer, a Data Scientist, and a Sales officer, and then adding the roles of Project Manager, HR and Admin and Finance Officer in later years.

Table 3 Manpower recruitment plan – five-year projection:

Title / Year	1	2	3	4	5
CEO (CTO)	1	1	1	1	1
Lead Engineer	1	1	1	1	1
Senior Developer	1	2	2	3	3
Data Scientist	1	2	2	2	2
Sales	1	1	1	2	2
Project Manager		1	1	1	2
HR and Admin		1	1	1	1
Finance		1	1	1	1

The table below provides an overview of human resource costs, accounting for social security and health insurance expenses. Social security contributions were computed at 14.25% of the gross salary, following the guidelines set by the Social Security Corporation.

Table 4: Manpower total cost – five-year projection

Title / Year	1	2	3	4	5
CEO (CTO)	30,000	36,000	38,400	42,000	48,000
Lead Engineer	24,000	30,000	33,600	38,400	42,000
Senior Developer	21,600	48,000	52,800	86,400	93,600
Data Scientist	21,600	48,000	52,800	57,600	62,400
Sales	9,600	10,800	12,000	26,400	28,800
Project Manager	-	9,600	10,800	12,000	26,400
HR and Admin	-	6,000	7,200	8,400	9,600
Finance	-	7,800	9,000	10,200	12,000
Total HR Salaries	106,800	196,200	216,600	281,400	322,800
Social Security Cost	15,219	27,959	30,866	40,100	45,999
Health Insurance Cost	5,000	10,000	10,000	12,000	13,000
Total HR Cost	127,019	234,159	257,466	333,500	381,799

This start-up requires an initial upfront investment of JOD 34,000 required to develop the core components of its solutions before hiring the entire engineering team in year 1, which is only to be done once the MVP and demand have been validated. Then an additional investment of JOD 24,000 is required to further develop the platform and its core services and AI modules. This includes the office set up and acquiring the needed licensing for legal operations as well as covering hosting fees as the user base of the platform grows.

As for operational expenditure, annual investments in marketing, utilities, and legal consultations are needed starting with JOD 14,811 in year 1 and growing to JOD 42,289 in year 5 as per the OpEx and CapEx tables below:

Table 5: Operational Expenditures – five-year projection

Description / Year	1	2	3	4	5
Electricity	250	250	250	250	250
Water	250	250	250	250	250
Stationary	200	200	200	200	200
Advertising	20,000	30,000	30,000	40,000	40,000
Cleaning Material & Consumbles	200	200	200	200	200
Hospitality Exp.	200	200	200	200	200
Sub-total OpEx	148,119	265,259	288,566	374,600	422,899
Other Costs	14,812	26,526	28,857	37,460	42,290
Total OpEx	162,931	291,784	317,422	412,059	465,189

Table 6: Capital Expenditures Cost – five-year projection

Description / Year	0	1	2	3	4	5
Building the Base of Technology	25,000	10,000	10,000	10,000	10,000	10,000
Office Rental		6,000	6,000	6,000	7,000	70,000
Furniture		6,000	2,000	1,000	500	500
Laptops	9,000	2,000	1,000	500		
Total CapEx	34,000	24,000	19,000	17,500	17,500	80,500

5. Financial Analysis

5.1 Financial Study Assumptions

The feasibility study is based on the following key assumptions:

Discount Rate: The study employs a conservative discount rate of 14%, reflecting a cautious approach to valuation.

Financing Structure: The project is entirely financed by equity. This conservative approach avoids the financial leverage and thus underestimates project value, given the lower cost of debt compared to equity.

Terminal Value: The project assumes a zero-terminal value at the end of year five, aligning with the study's conservative outlook.

Cash Flow Projection: Cash flows beyond year five are excluded from the analysis, focusing on the initial project phase.

Tax Rate: The assumed tax rate of 20% complies with Jordan's income tax law.

Depreciation Rate: Capital expenditure (CapEx) is depreciated at an annual rate of 20%. Any deviation from this rate may impact projected profitability but not project feasibility, as depreciation is a non-cash expense.

Working Capital Assumptions

Operational liquidity requirements are guided by the following assumptions:

Cash Reserves: The project will maintain cash equivalent to 90 days of projected annual operational expenses, ensuring robust liquidity management.

Accounts Receivable (A/R) Collection Period: The average collection period for receivables is 30 days, reflecting expected credit sales conversion into cash.

Accounts Payable (A/P) Payment Period: The average payment period for payables is 30 days, indicating the timeframe for settling supplier obligations.

Capital expenditures expected to be incurred in the first year were included as part of the initial costs of the project.

Provisions were made within the initial cost to cover any potential negative net free cash flow that may arise during the first five years of operation, if needed.

5.2 Financial Study:

5.2.1 Projected Working Capital

Table 7: Working capital projection (JOD)

Description / Year	1	2	3	4	5
Cash	40,733	72,946	79,356	103,015	116,297
Accounts Receivable (A/R)	17,667	32,333	51,167	80,000	98,000
Accounts Payable (A/P)	2,333	4,667	7,833	11,333	13,917
Net Working Capital	56,066	100,613	122,689	171,682	200,381
Change in Working Capital		44,547	22,076	48,993	28,699

This table shows that the net working capital needed for the project for the first year of operation is JOD 56,066, which has to increase steadily year over year to reach JOD 200,381 in the fifth year. The steady increase in the working capital comes to cover the rapid increase in the project operations and mainly the increase in the projected revenues.

5.2.2 Project Initial Cost

The project's initial cost is projected to be JOD 123,185, comprising JOD 58,000 as CapEx, JOD 9,119 as provisions for the second-year negative free cash flow and JOD 56,066 as net working capital.

Table 8: Initial Cost Summary (JOD)

Description / Year	JOD
CapEx	58,000
Provisions for first year(s) negative free cash flows	9,119
Net Working Capital	56,066
Total Initial Cost	123,185

5.2.3 Projected Income Statement

The projected income statement indicates that the project will generate a profit of JOD 7,575 in the first year of operation. Moreover, the net profit is expected to increase gradually over the study period, reaching JOD 404,249 in the fifth year of operation.

Table 9: Projected Income Statement (JOD)

Description / Year	1	2	3	4	5
Total Revenues	212,000	388,000	614,000	960,000	1,176,000
COGS	28,000	56,000	94,000	136,000	167,000
Gross Profit (JOD)	184,000	332,000	520,000	824,000	1,009,000
OpEx	162,931	291,784	317,422	412,059	465,189
Net Profit Before Tax and Depreciation	21,069	40,216	202,578	411,941	543,811
Depreciation	11,600	15,400	18,900	22,400	38,500
Net Profit Before Tax	9,469	24,816	183,678	389,541	505,311
Tax Expense	1,894	4,963	36,736	77,908	101,062
Net Profit	7,575	19,853	146,942	311,632	404,249

In the first year of operation, the project is expected to generate a positive net profit margin of 3.6%. The net profit margins are expected to increase gradually over the course of the study. In the fifth year of operations, the gross profit margin is expected to be 85.8%, and the net profit margin is 34.4%.

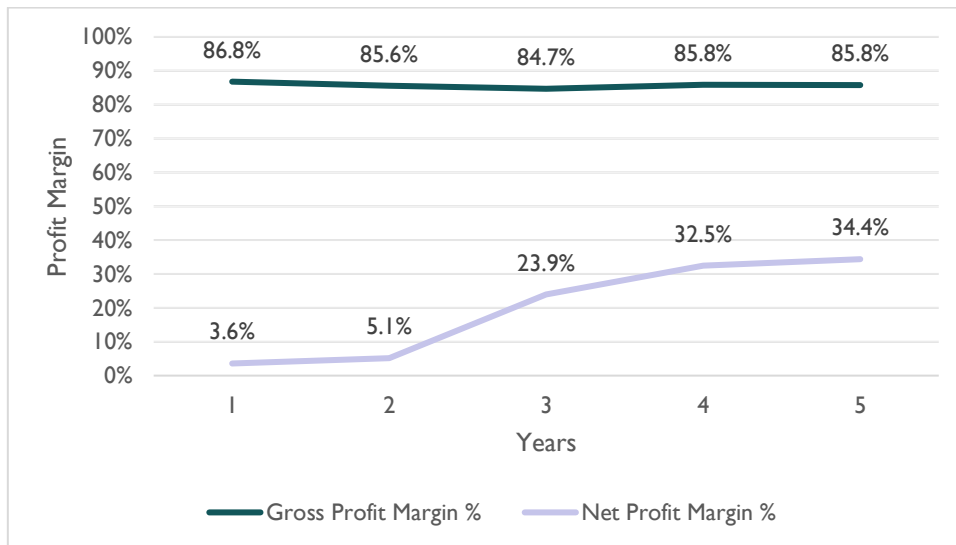


Figure 3: Gross vs Net Profit Margin

On the asset management side, the study shows that the return on investment will increase steadily from 7.0% in the first year of operation to 163.0% in the fifth year.

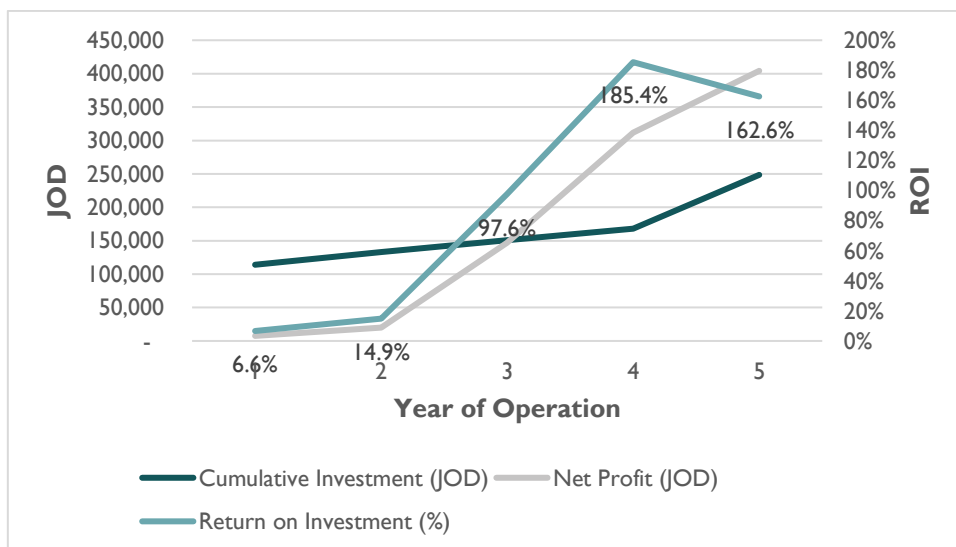


Figure 4: Return on Investment

5.2.4 Projected Free Cash Flow Statement

The table below demonstrates that the project can generate a positive free cash flow in the first year of operation, JOD 19,175. However, due to the expansion of its operations, the project will need to inject JOD 19,000 as CapEx and JOD 44,547 as working capital, resulting in the second year experiencing a negative free cash flow of JOD 28,294. However, the free cash flow is expected to be positive and increase gradually from the third year onwards. By the end of your five, the projected free cash flow will reach JOD 333,550.

Table 10: Free Cash Flow (FCF) Projection (JOD)

Description / Year	0	1	2	3	4	5
Cash-In Flow						
Net Profit		7,575	19,853	146,942	311,632	404,249
Depreciation		11,600	15,400	18,900	22,400	38,500
Injected Capital	123,185					
Total Cash-In Flow	123,185	19,175	35,253	165,842	334,032	442,749
Cash-Out Flow						
Initial Cost	114,066		19,000	17,500	17,500	80,500
Changes in Working Capital			44,547	22,076	48,993	28,699
Total Cash-Out Flow	114,066	-	63,547	39,576	66,493	109,199
Free Cash Flow	9,119	19,175	-28,294	126,266	267,540	333,550

Based on these results, the project's feasibility indicators demonstrate its viability, with a net present value of JOD 288,730.4 and a profitability index of 3.34. Moreover, the project's internal rate of return (IRR) is expected to be 53.35%, indicating feasibility is not sensitive to changes in market conditions.

Feasibility Indicators	Value
Net Present Value (NPV)	288,730
Profitability Index (PI)	3.34
Internal Rate of Return (IRR)	53.35%

5.3 Sensitivity Analysis

To assess the project's sensitivity to market conditions, a sensitivity analysis was conducted involving six unfavourable scenarios:

- Decrease projected revenues by 5% while keeping other variables constant.
- Decrease projected revenues by 10% while keeping other variables constant.
- Increase operational expenditure by 5% while keeping other variables constant.
- Increase operational expenditure by 10% while keeping other variables constant.
- Increase initial costs by 5% while keeping other variables constant.
- Increase initial costs by 10% while keeping other variables constant.

Table 11: Sensitivity analysis outcomes

Sensitivity Scenario	Net Present Value (NPV)	Profitability Index (PI)	Internal Rate of Return (IRR)
Original Case	288,730	3.34	53.35%
Drop in revenue by 5%	181,581	2.23	37.26%
Drop in revenue by 10%	68,598	1.39	22.27%
Increase in OpEx by 5%	250,621	3.16	49.43%
Increase in OpEx by 10%	203,034	2.72	42.42%
Increase in initial cost by 5%	282,571	3.18	51.46%
Increase in initial cost by 10%	276,412	3.04	49.69%

The sensitivity analysis shows that the project is feasible and not sensitive to unfavourable market conditions. The project's economic feasibility is strong and viable under all the above-mentioned scenarios. The drop in revenues has a more dramatic impact on the project

viability than the increase in the OpEx or initial cost by the same magnitude. It is recommended that investors check and further study the market to ensure that the projected revenues are achievable within the thresholds of the proposed initial cost and operational expenditures.

6. Integration with Other Sectors

Edumetrix's expertise in AI-enhanced education management, faculty assistance and automation of tasks and learning processes offers significant opportunities for integration across various sectors, enhancing value for clients and expanding its market reach.

Education and Training: Edumetrix can help address the gap between educational curricula and labour market needs by partnering with vocational training institutions and universities. By setting up student advisory services, Edumetrix can provide students with valuable hands-on experience and connect educational institutions with employers, enhancing job prospects and creating a pipeline of skilled talent. By integrating Edumetrix's analytics and employer profiles into their services, educational institutions can offer enhanced career counselling and placement support, providing students with personalized guidance and access to job opportunities that match their skills and aspirations.

Healthcare: Edumetrix can collaborate with medical schools and healthcare training institutions to integrate AI-driven data analytics into their curricula. This can help future healthcare professionals understand the importance of data in patient care, hospital management, and medical research. By offering predictive analytics tools, Edumetrix can assist in optimizing student placements in hospitals and clinics, ensuring that training aligns with real-world healthcare demands.

Corporate Training: Edumetrix can extend its services to corporate training programs, providing AI-driven analytics to assess and enhance employee learning and development. By collaborating with corporations, Edumetrix can develop customized performance-based training programs that utilize predictive modelling to identify skill gaps and recommend targeted training solutions, improving overall workforce competency and productivity.

7. Entrepreneur Persona

Based on the needs of Edumetrix, the following are key elements of the entrepreneur's persona:

Technology Integration: The entrepreneur has a solid technical background in AI and keeps up with advanced technologies like machine learning, and big data analytics to continuously evolve educational processes. They implement AI-driven tools and analytics to forecast educational needs, ensuring institutions benefit from the latest innovations.

Strategic Education Management: The entrepreneur must align educational strategies with institutional goals to ensure that the right tools and technologies are in place, driving growth and innovation. They must understand the unique needs of each institution, from small

colleges to large universities, identifying gaps in educational processes, developing AI-driven solutions, and implementing effective onboarding and training programs.

Compliance and Regulatory Knowledge: The entrepreneur must be an expert (or partner/collaborate with one) in navigating educational regulations to ensure compliance with local and international standards. They must cover aspects such as data privacy, academic integrity, and educational standards, staying updated on regulatory changes to mitigate risks and avoid penalties.

Leadership and Team Building: The entrepreneur builds and leads high-performing teams, fostering a collaborative and inclusive environment. They can identify the right experts and consultants to work with especially in business development, digital marketing and data analytics.

8. Stakeholders

The key stakeholders who will play a role in the functioning of Edumetrix are as follows:

Higher Education Institutions: This group includes universities, colleges, and vocational training institutes. They are the primary clients who will use Edumetrix's services to enhance their educational processes and outcomes. Their needs and feedback will shape the services Edumetrix provides.

Students and Educators: This includes students at various educational levels and educators who form the core users of Edumetrix's tools and analytics. Their experiences and outcomes are central to Edumetrix's value proposition.

Industry Partners: These stakeholders include companies and organizations that collaborate with Edumetrix to provide internship, apprenticeship, and job placement opportunities. Their involvement ensures that educational programs are aligned with market needs.

Technology Providers: Providers of AI, machine learning, and big data analytics technologies will be crucial for the development and maintenance of Edumetrix's solutions. Their technology will enable better data management, predictive modelling, and educational insights.

Employees of Edumetrix: The internal team, including data scientists, AI experts and computer science engineers, sales and project manager, will be responsible for delivering and managing Edumetrix's services.

9. Risk Assessment and Mitigation

Risk	Impact	Likelihood	Risk Mitigation Technique
Operational Risks	Ensuring quality of service, Edumetrix must continually maintain high standards of service delivery to meet client expectations and retain their trust and satisfaction.	Moderate	EduMetrix should be able to keep up with the latest developments in AI and data analytics and should implement a comprehensive quality management system (QMS) to standardize processes and monitor service delivery. Regular audits on quality and reviews of delivered services will help identify and rectify issues promptly. Setting up robust client feedback mechanisms and acting on feedback swiftly can enhance service quality. Clearly defined Service Level Agreements (SLAs) with clients will set expectations and measure performance, which should be regularly reviewed and updated.
Financial Risks	Fluctuations in project demand or delays in payments from clients (especially given the focus on the B2B business model which might have longer cycles) may impact cash flow and revenue stability. Additionally, unforeseen expenses related to team management, technology infrastructure, or talent acquisition may lead to cost overruns and affect profitability.	Moderate	Edumetrix should diversify its client base to stabilize revenue streams and minimize the impact of client-specific issues. Establishing robust financial management practices, including budgeting, forecasting, and regular reviews, will help monitor cash flow and identify potential issues early. Developing contingency plans and maintaining a financial reserve ensures operational stability during financial uncertainties. Additionally, implementing an efficient invoice management system can ensure timely payments, with incentives for early payments.
Regulatory Risks	Ensuring compliance with data protection regulations to safeguard client data and mitigate legal liabilities. Additionally, adhering to educational regulations to avoid legal disputes or penalties.	Moderate	Edumetrix should hire or consult with legal and compliance experts specializing in data protection and educational regulations in different regions, ensuring the company stays updated with regulatory changes. Regular internal and external compliance audits can identify and rectify non-compliance issues. Investing in advanced cybersecurity solutions to safeguard client information and providing ongoing training for employees on compliance requirements ensures adherence to regulatory standards.
High Competition and Market Risks	Relatively slow adoption pace for AI among universities in MENA, high competition and shifting market trends or economic conditions may impact the demand for educational technology services, necessitating agile responses to changing market dynamics.	High	Edumetrix should continuously monitor the speed of closing business deals, market trends and conduct regular research to stay ahead of industry changes, enabling proactive adjustments to services and financial modeling. Developing flexible and scalable service models that can be quickly adapted to changing client needs and conditions is vital. Maintaining close client relationships to understand their evolving needs helps retain clients during market fluctuations. Forming strategic alliances and partnerships with other companies and educational initiatives can enhance service capabilities and market reach, providing additional revenue streams.

Edumetrix’s advanced AI-driven educational solutions have the potential to significantly enhance the educational landscape across the MENA region. By offering tailored data analytics tools, predictive modelling, and automation solutions, Edumetrix aligns with the diverse needs of higher education institutions. Its subscription-based model provides scalable options, ensuring both small colleges and large universities can benefit from its innovative technologies. The licensing fees for proprietary software and AI algorithms ensure institutions can fully integrate these solutions into their existing systems, by customizing them to enhance their operational efficiency and enabling their faculty to offer personalized learning while freeing some of their time which can be invested in research. Edumetrix’s consultancy services further support educational administrators by providing strategic guidance and data-driven solutions to address challenges such as high dropout rates and varying student performance levels.

With the global EdTech market projected to grow substantially, Edumetrix is well-positioned to capitalize on this trend by offering flexible, scalable services. Strategic partnerships with universities, government bodies, and other technology providers will enhance product customization and ensure alignment with educational modernization goals. Continuous innovation through regular updates to AI algorithms and user experience improvements will keep Edumetrix’s solutions at the forefront of educational technology. Despite challenges such as high human capital and operational costs, challenging sales targets and data security risks, the benefits of Edumetrix’s offerings outweigh the drawbacks, enabling it to become a leading player in the educational technology sector within the MENA region. By driving improved educational outcomes and operational efficiency, Edumetrix has the potential to contribute to leapfrogging higher education with the use of AI, fostering an environment that supports individualized student interventions and AI-assisted teaching support.

10. Conclusion

In conclusion, the project demonstrates promising feasibility indicators based on the assumptions formed during the development of this study. Nonetheless, entrepreneurs are advised to conduct additional analysis on projected demand, initial costs, and operational expenses to mitigate potential risks associated with adverse market conditions that could jeopardize its validity.

Disclaimer

The Ministry of Digital Economy and Entrepreneurship (MoDEE) and Istadama Consulting have prepared this report using information supplied by its advisors as well as information available in the public domain.

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Founders and investors considering this project are advised to conduct further analysis on projected adoption rates, development costs, and ongoing operational expenses. This additional scrutiny will help mitigate potential risks related to technology challenges, changes in regulations, market penetration, and competitive pressures.

The report does not constitute any form of commitment or recommendation on the part of MoDEE or Istadama Consulting.