



The AI Educators

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Outline

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- Stakeholders
- Drivers
- Constraints
- User Requirements
- Business Requirements
- System Requirements
- Security Requirements
- Elicitation Process
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Mission Statement (Why are we doing this?)

Problem :

Traditional education often follows a one-size-fits-all approach, which can leave students struggling to reach their full potential.

Solution:

Provide personalized learning to all who seek to learn using Artificial Intelligence

Mission:

Create an AI-driven learning platform that will integrate with and upgrade the existing educational platform such that it adapts and personalizes based on each student's unique need and learning preference



Only the Top-Most



Stakeholders (Who does it affect?)

1. Educational Institutes - Sponsors

A symbiotic relationship wherein data is provided by the institute and their interface/ software is upgraded/ AI-enabled by us.

Critical stakeholders for regulation and policy.

2. Students - Primary Users (Favored Class)
3. Educators/ Professors - Primary Users (Favored Class)
4. Parents/ Guardian - Indirect Users
5. Regulatory Body - Red Flag Identification
6. AI Developers/Engineers
7. Curriculum Designers



Drivers (Underlying Motivation)

1. Personalization :
Adaptive Learning, Micro-Learning, Skill based recommendations

While the rest of the drivers have been present for building any software, ours will be AI-powered, hence Personalization is a key driver.

2. Educator empowerment : Automate workflows, Data-driven insights, etc
3. Seamless integration
4. Cost-effectiveness
5. Scalability



Constraints

Top 3:

1. **Budgetary Constraints:** Prioritize spending for essential tasks.
2. **Regulatory Compliance:** Ensure adherence to data protection regulations.
3. **Technological Infrastructure:** Ensure compatibility with diverse school systems and devices.

Others:

1. **Security Measures:** Implement cybersecurity for data protection.
2. **Scalability:** Plan for efficient system growth and responsiveness.
3. **Integration with Existing Systems:** Ensure seamless compatibility with school platforms.
4. **User Privacy:** Prioritize stringent measures for data protection and legal compliance.



User Requirements

- Career and Skill Mapping (Key User Requirement)

Career is a fundamental user priority as everyone seeks rewarding outcomes for their efforts. Our platform is designed to offer comprehensive career guidance by assessing users' strengths and weaknesses, enabling skill enhancement and targeted improvement. Our ultimate goal is to help users find a career path that aligns seamlessly with their capabilities and aspirations.

Others:

- Mental Wellbeing and Illness Tracking
- Parental Engagement Tools
- Gamified Learning Modules (User Requirement)
- Global Language Support (User Requirement)



Business Requirements

- Lifelong Learning and Career Pathways Integration:
Our goal is to make sure the educational content on our platform fits with the kind of jobs people want. This should work for everyone, including those who aren't in traditional schools and people of different ages. We want to provide learning opportunities that match evolving careers and suit diverse needs.

Others:

- Accessibility
- Global Digital Divide Reduction Initiatives
- Data Security and Compliance
- Scalable Infrastructure for Growth
- Monetization Strategies
- Partnership Integration



System Requirements

- AI-Driven Content Adaptation

AI algorithms for the application should dynamically adapt and curate content based on these points : cultural context, learning preferences, and performance metrics.

Others :

- Interoperability
- AI Algorithm Accuracy
- Offline Capability
- Real-time analytics



Security Requirements

- Real-time Threat Detection and AI-powered Response Systems:

Utilize AI and machine learning algorithms for real-time threat detection and automated responses to potential security breaches, ensuring faster and more efficient threat mitigation.

Others :

- Data Encryption
- Identity Verification
- Ethical AI Monitoring Framework
- Access Control



Quality Requirements

- Resilience to Technological Changes:

The platform should be designed to easily adapt to technological changes and advancements, ensuring its long-term viability and relevance

Others :

- Consistent Learning Outcomes Across Diverse Groups
- Performance Optimization
- Scalability Testing
- User Support Services



Elicitation Process

- Phase 1: Defined scope, crafted interview materials, introduced mission.
- Phase 2: Conducted interviews for insights on challenges, expectations, and requirements.
- Phase 3: Follow-up included smart analysis, organizing requirements, and summarizing key findings in a final report.



Requirement Validation & Analysis

Validation Phase

- Validated the gathered insights against initial goals and mission.
- Carefully examined each requirement for feasibility, relevance, and alignment with respect to our AI learning platform's objectives.
- Discussed and refined any issues, established validated requirements as a strong foundation for subsequent development.

Analysis Phase

- Thoroughly analyzed requirements for development insights.
- Categorized and Prioritized critical requirements based on importance, impact and features aligning closely with the company's vision.
- This analysis serves as the blueprint for subsequent development



Feedback

1. Siddharth, our roommate, emphasized the critical need for a user-friendly interface.
2. Anurag's Mother, a Teacher, highlighted the need for adaptability to various teaching methodologies.
3. Shivam, friend from another team, stressed the significance of robust data security features.
4. Shanky, Working in IT, advocated for scalability and seamless integration with existing systems.
5. Kartik, a friend, provided valuable insights into compliance management and ethical considerations.



Thank You