



Project Phase II

Topic:

System Vision

Submitted by:

Name	Roll No
Zainab Eman	22F-3738
Noor Fatima	22F-3634
Imama Kainat	22F-3661

Submitted to:

Sir Sajid Anwar

Date:

22-10-2023

Table of Contents

System Vision:	3
Problems the system aim to solve:	3
System Capabilities:	3
User Profiles:	3
Teacher Features:	3
Student Features:	3
Course Management:	3
User Interaction:	3
Administrative Tools:	3
Accessibility:	3
Performance:	4
Security and Privacy:	4
Search and Recommendation:	4
Business Benefits	4
Tangible Benefits:	4
Intangible Benefits:	4
System Context	4
System Functionalities:	5
Relevant Environment:	5
Irrelevant Environment:	5
Context facet	6
Subject facet	6
Usage facet	6
IT system facet	7
Development facet	7

System Vision:

Enabling accessible and engaging online education.

Learnova envisions a future where education is accessible, engaging, and tailored to the unique needs of every student. Our platform aspires to empower educators to showcase their expertise and share knowledge while inspiring learners of all ages to explore, discover, and excel in their educational journey. We aim to create a vibrant and inclusive online learning community that bridges the gap between teachers and students, promoting a lifelong love for learning.

Problems the system aim to solve:

Learnova tackles these challenges by providing an accessible and engaging platform:

- Limited Access to Quality Education
- Un-Interactive and Un-Engaging Educational System
- Limited Teacher Reach
- Administration and Assessment Inefficiency
- Difficulty in Discoverability of Educational Resources

System Capabilities:

here are some capabilities of Learnova:

User Profiles:

- Users can create and manage their profiles, providing essential personal and educational information.

Teacher Features:

- Teachers can add courses and invite students to enroll, manage students, and track attendance and assessments for their courses.

Student Features:

- Students can register for courses, complete assignments, and search for teachers and courses based on their educational level and interests.

Course Management:

- Both teachers and students can interact with course content, access materials, and engage in course-specific activities.

User Interaction:

- The system enables real-time interactions between teachers and students through discussion boards and messaging.

Administrative Tools:

- Admins have the capability to manage user accounts, system security, and resolve any technical issues.

Accessibility:

- The platform is designed to be user-friendly, with a colorful and intuitive interface, making it suitable for primary school students.

Performance:

- The system ensures reliable and responsive performance, even during periods of high user activity.

Security and Privacy:

- User data is securely stored and protected to maintain the privacy and confidentiality of personal information.

Search and Recommendation:

- The system offers robust search and recommendation features to help students discover relevant courses and teachers.

Business Benefits

The implementation of Learnova can yield several tangible and intangible business benefits for the organization:

Tangible Benefits:

- Generate revenue through subscription fees or course purchases.
- It will lead to reduced operational costs, including paperwork and manual record-keeping.
- By offering an accessible platform, the organization can tap into new markets and expand its user base.

Intangible Benefits:

- Enhance the organization's reputation in the education technology sector.
- Positive user experiences can lead to higher engagement and satisfaction, which, in turn, can strengthen brand loyalty.
- Developing and maintaining Learnova can position the organization as an innovative player in the education industry.
- By addressing accessibility issues in education, the organization can make a positive social impact, which can be a source of pride and goodwill.
- These tangible and intangible benefits can contribute to the organization's growth, financial stability, and reputation while also helping improve the quality of education provided to users.

System Context

System Functionalities:

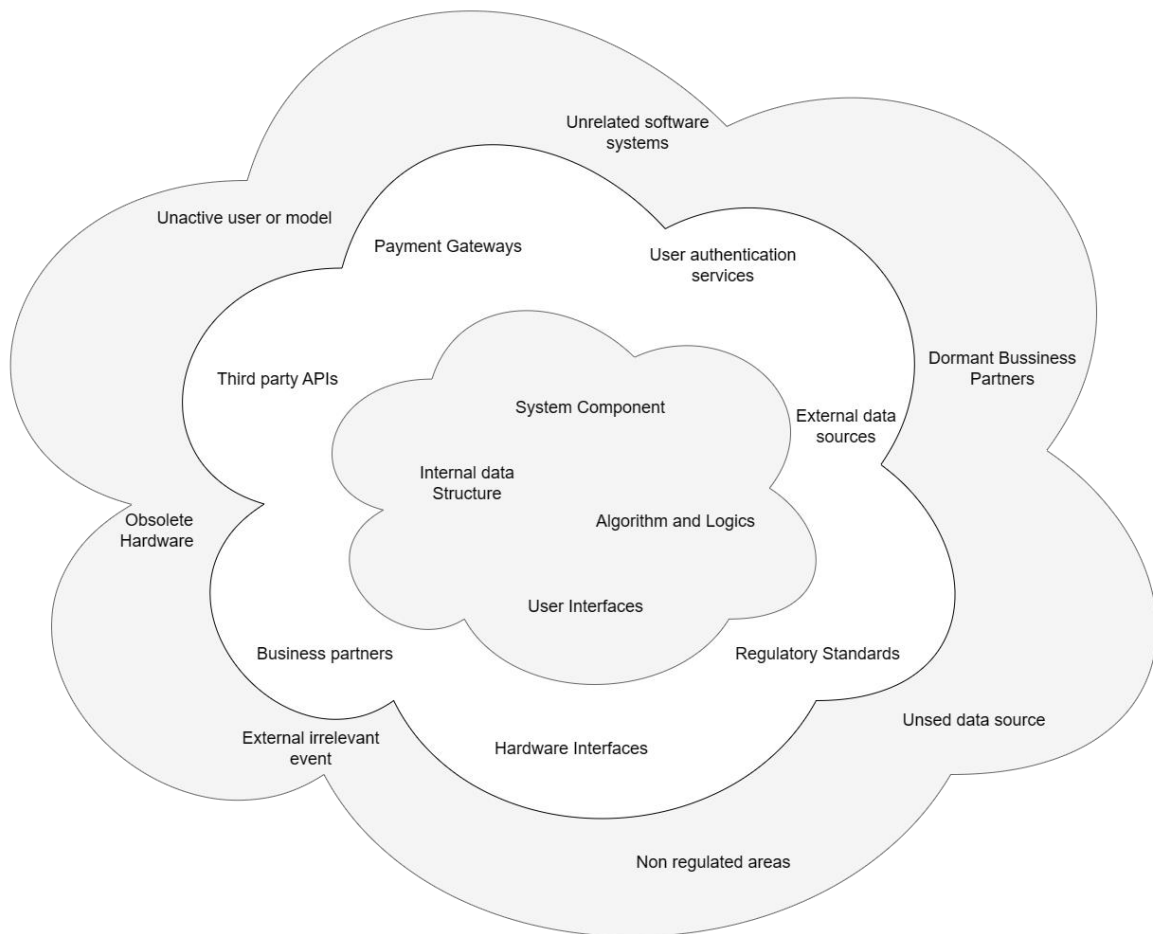
- **System Components:** This includes the core software modules and components that make up the system. These are the building blocks that directly implement the system's functionality.
- **Internal Data Structures:** Data structures, databases, and data storage mechanisms used by the system to manage and manipulate data.
- **Algorithms and Logic:** The specific algorithms, rules, and logic implemented within the system to process data and perform tasks.
- **User Interfaces:** The graphical user interfaces or APIs that allow users and external systems to interact with the software.

Relevant Environment:

- **External Data Sources:** Relevant data sources and databases that the system needs to access or integrate with to function correctly.
- **User Authentication Services:** Authentication and authorization services that the system relies on to manage user access.
- **Payment Gateways:** Payment processing services that the system uses to facilitate financial transactions.
- **Third-party APIs:** External APIs and services that the system interacts with to exchange data or perform specific functions.
- **Regulatory Standards:** Industry or government regulations that the system must adhere to, which impact its behavior and features.
- **Hardware Interfaces:** External hardware devices, sensors, or machinery that the system connects with to collect data or control processes.
- **Business Partners:** External organizations or entities that collaborate with the system in various ways, such as suppliers or distributors.

Irrelevant Environment:

- **Unrelated Software Systems:** Software systems or components that have no direct interaction or impact on the system.
- **Inactive Users or Roles:** User roles or profiles that are not actively involved in system operations.
- **Obsolete Hardware:** Hardware devices that are no longer used or have no bearing on current system operations.
- **External Events:** Events in the broader world that do not influence the system's operation, like public holidays unrelated to the system.
- **Non-regulated Areas:** Regulations or standards that do not apply to the system's industry or operations.
- **Unused Data Sources:** Data sources or databases that are not accessed by the system.
- **Dormant Business Partners:** Organizations or entities that the system no longer collaborates with.



Context facet

Subject facet

- Objects and events relevant for the Learnova system:
- Students
- Teachers
- Courses
- Assignments
- Grades
- Feedback
- Learning materials

Usage facet

- Aspects concerning the usage of Learnova by people or other systems:
- Educational laws and standards

- Accessibility requirements
- Privacy and security requirements
- Integration with other systems

IT system facet

- Objects and elements of the IT system environment of the Learnova system:
- Cloud infrastructure
- Learning management system software
- AI-powered feedback engine
- Mobile app

Development facet

- Aspects concerning the development process of the Learnova system:
- Agile development methodology
- Automated testing
- Continuous integration and delivery