



SOFTWARE REQUIREMENTS SPECIFICATION (SRS)
(Evaluation System)

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Complete SRS Document about Practical Topic(Evaluation APP).

Evaluation App for Student Presentations

1. Introduction

1.1 Purpose

The purpose of this document is to outline the functional and non-functional requirements for the "Evaluation App." This mobile and/or web application will be used in educational institutions to evaluate student presentations. Both teachers and students in the class will be able to assess presentations based on parameters such as slide quality, speech delivery, content clarity, creativity, and overall performance. The app ensures a fair and transparent assessment system by combining both instructor and peer evaluations.

1.2 Scope

The Evaluation App will:

- ✓ Allow teachers to create evaluation sessions.
- ✓ Enable students to join evaluation sessions using a code or link.
- ✓ Provide a user-friendly interface for grading presentations.
- ✓ Aggregate scores from teachers and peers.
- ✓ Generate individual and comparative performance reports.
- ✓ Offer feedback sections for written comments.

1.3 Definitions, Acronyms, and Abbreviations

App: Mobile or Web application

UI: User Interface

API: Application Programming Interface

DB: Database

SRS: Software Requirements Specification

Evaluator: A user who evaluates a presentation (either a teacher or a student peer)

1.4 References

Laravel documentation (for backend integration)

CSS documentation (fronted)

Material Design Guidelines (for UI)

1.5 Overview

This document provides an overview of the system functionalities, interfaces, system architecture, and detailed requirements for developing and implementing the Evaluation App.

2. Overall Description:

2.1 Product Perspective:

The Evaluation App is a standalone application that will use a cloud backend (e.g., Firebase) for authentication, data storage, and real-time updates.

2.2 Product Functions

- ✓ User Registration/Login (Student/Teacher roles)
- ✓ Create/Join Evaluation Session
- ✓ Real-time Evaluation Interface
- ✓ Customizable Criteria Setup by Teacher
- ✓ Peer and Teacher Assessment Panels
- ✓ Score Aggregation Algorithm
- ✓ Analytics and Reporting Module
- ✓ Feedback Submission
- ✓ Admin Controls for Teachers

2.3 User Classes and Characteristics

Teacher: Creates and manages sessions, views all results, and has final grading control.

Student Presenter: Presents to the class and receives feedback and scores.

Student Evaluator: Participates in evaluating other students' presentations.

2.4 Operating Environment

Platforms: Android, Web

Backend: Laravel

Database: MYSQL

Frontend: Laravel /CSS

2.5 Design and Implementation Constraints

- ✓ Limited to mobile/web interface
- ✓ Requires internet connectivity

2.6 User Documentation

- ✓ In-app user guide
- ✓ Online help section and FAQ
- ✓ Instructor onboarding tutorial

3. Specific Requirements

3.1 Functional Requirements

3.1.1 User Management

Student Functional Requirements:

- ✧ Access Student Portal
- ✧ Students can log in to their dedicated portal
- ✧ View Competitions
- ✧ See all available evaluation competitions
- ✧ View Competition Details
- ✧ Name, course, evaluator count
- ✧ Completed/pending evaluations
- ✧ Status & deadline
- ✧ Submit Evaluations
- ✧ Rate peer/faculty projects
- ✧ Track Progress
- ✧ Check evaluation status (pending/complete)
- ✧ View Feedback
- ✧ See scores and comments from faculty

Faculty Functional Requirements:

- ✓ Access Faculty Portal
- ✓ Faculty can log in to their dedicated portal
- ✓ View Competitions
- ✓ List all evaluation competitions
- ✓ View Competition Details
- ✓ ID, course, title, submission date
- ✓ Edit/delete options
- ✓ Manage Competitions
- ✓ Add new competitions
- ✓ Edit existing competitions
- ✓ Delete competitions
- ✓ Manage Assessment Criteria
- ✓ View/add/edit grading categories (e.g., "Content", "Creativity")
- ✓ Evaluate Submissions

- ✓ Grade student projects
- ✓ Provide Feedback
- ✓ Add comments for student

Key Difference:

Student Can	Teacher Can
Submit evaluations	Create competitions
Track progress	Set grading criteria
View feedback	Evaluate all submissions

3.1.4 Evaluation Process

- ✓ Evaluators (students and teacher) shall assign scores and feedback during or after a presentation.
- ✓ Evaluations shall be time-bound if configured by the teacher.

3.1.5 Scoring and Reporting

- ✓ The system shall calculate average scores from students and combine with the teacher's score.
- ✓ The system shall generate reports including total score, peer average, and teacher score.
- ✓ The system shall allow viewing individual feedback.

3.1.6 Feedback and Review

- ✓ Evaluators shall submit optional textual feedback.
- ✓ Students shall be able to view aggregated feedback after the session ends.

3.2 Non-Functional Requirements

3.2.1 Performance Requirements

- ✓ The app shall support up to 50 concurrent users in one session.
- ✓ Response time shall be less than 2 seconds for UI operations.

3.2.2 Security Requirements

- ✓ The app shall encrypt user data during transmission (HTTPS).
- ✓ Access to evaluation data shall be role-based (teacher/student).

3.2.3 Usability Requirements

- ✓ The app shall provide an intuitive UI for all user types.
- ✓ The app shall be accessible to users with visual impairments (font scaling, color contrast).

3.2.4 Reliability and Availability

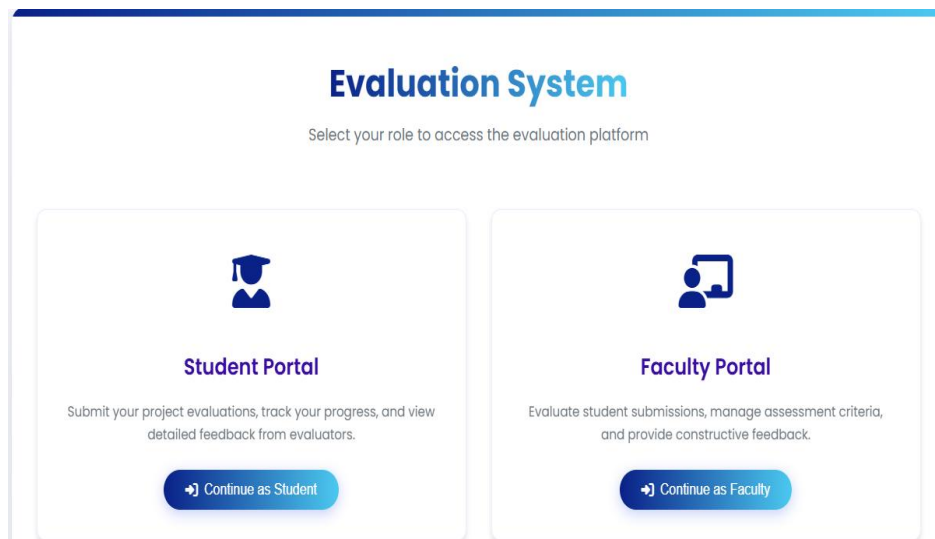
The app shall be available 99% of the time (excluding maintenance).

The app shall auto-save scores and comments to prevent data loss.

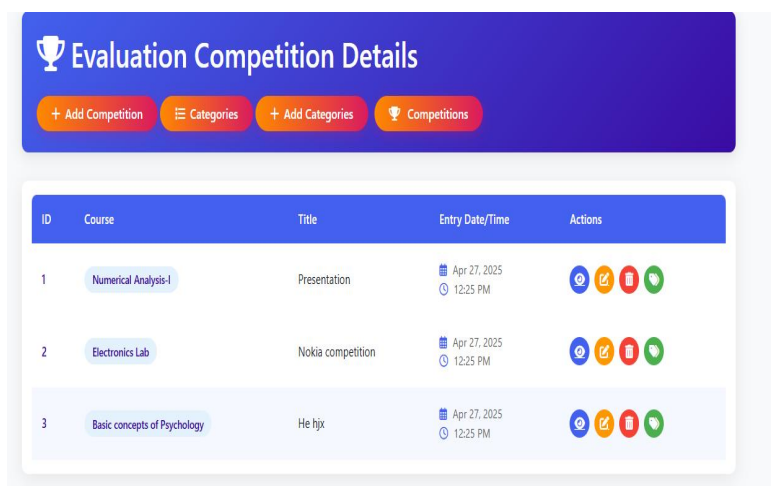
4. External Interface Requirements

4.1 User Interfaces

- ✓ Login Page (Role Selection)
- ✓ Teacher Dashboard (Session Creation, Reports)
- ✓ Student Dashboard (Join Session, Give Ratings)
- ✓ Evaluation Form (Score sliders, Comment Box)
- ✓ Report View (Charts, Comments)



(Role selection)



Faculty side

Evaluation Competitions							
View Evaluations							
#	Competition	Course	Total Evaluators	Completed	Pending	Status	Timeline
1	Presentation	Numerical Analysis-I	2104	0	2104	COMPLETED	10 Apr 2025 12:26 – 26 Apr 2025 12:26
2	Nokia competition	Electronics Lab	2104	2	2102	COMPLETED	27 Apr 2025 12:27 – 30 Apr 2025 12:27
3	He hjx	Basic concepts of Psychology	2104	1	2103	COMPLETED	19 May 2025 10:45 – 19 May 2025 22:51

Student side

Evaluation Records							
View Competitions							
Search evaluations...							
Export							
#	Student ID	Competition	Category	Score	Evaluator	Date	
1	BBAF22M01	Nokia competition	UI	3/5	BSITF22M02	27 Apr 2025	
2	BBAF22M01	Nokia competition	features	4/5	BSITF22M02	27 Apr 2025	
3	BBAF22M01	Nokia competition	UI	4/5	BSITF22M01	29 Apr 2025	
4	BBAF22M01	Nokia competition	features	3/5	BSITF22M01	29 Apr 2025	
5	BBAF22M01	He hjx	UI	2/5	BSITF22M01	19 May 2025	
6	BBAF22M01	He hjx	Functions	3/5	BSITF22M01	19 May 2025	

Evaluation:

4.2 Hardware Interfaces

Compatible with smartphones, tablets, and computers.

4.3 Software Interfaces

- ✓ Laravel Framework
- ✓ MySQL Database

4.4 Communication Interfaces

Internet (Wi-Fi/4G)

5. Future Enhancements

- ✓ AI-based presentation evaluation assistant.
- ✓ Video recording and playback of presentations.
- ✓ Offline evaluation mode.
- ✓ Export to PDF/Excel.

6. Appendices

Appendix A: Sample Evaluation Criteria

- ✓ Slide Design (10 points)
- ✓ Speech Clarity (10 points)
- ✓ Subject Knowledge (10 points)
- ✓ Confidence and Body Language (10 points)
- ✓ Overall Impact (10 points)

- ✓ Appendix B: Weight Distribution
- ✓ Teacher Score: 60%
- ✓ Student Peer Average: 40%