

# **CEBU INSTITUTE OF TECHNOLOGY**

## **UNIVERSITY**



**COLLEGE OF COMPUTER STUDIES**

## **Software Requirements Specifications**

*for*

Software Project Management Plan Evaluator

## Change History

Version	Date	Author(s)	Change Description
1.0	2025-09-26	Project Team	Initial draft — outline and TOC
2.0	2025-09-27	Project Team	Added details in Modules
3.0	2025-09-28	Project Team	Added Wireframe in Modules
4.0	2025-09-29	Project Team	Added Non-Functional Requirements
5.0	2025-12-07	Project Team	Altered Diagrams into context based.

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## 1. Introduction

### 1.1. Purpose

The purpose of this document is to describe the requirements for the **SPMP Evaluator** system. This system is designed to automate the evaluation of Software Project Management Plans (SPMP) created by students. It helps Professors grade documents based on the **IEEE 1058 standard** and allows Students to track their tasks and compliance scores.

### 1.2. Scope

The **SPMP Evaluator** is a web-based tool designed to automatically analyze, score, and provide structured feedback on Software Project Management Plans (SPMPs) based on IEEE 1058 standards

- **Students** can upload PDF or DOCX files, view automated compliance scores, receive feedback on missing sections, and track project tasks assigned by professors.
- **Professors** can customize grading rubrics, override AI-generated scores, create tasks for students, and monitor class performance through dashboard and Student Progress.
- The system uses an automated parser to detect specific keywords (e.g., "Risk Management", "Schedule") to determine if the document meets industry standards.

### 1.3. Definitions, Acronyms and Abbreviations

- **SPMP** — Software Project Management Plan
- **IEEE 1058** — IEEE standard for Software Project Management Plans
- **Parser** — Module that extracts document structure from PDF/DOCX
- **Evaluator** — Scoring engine applying rules/weights to parsed output
- **DB** — A Database used to store user data.
- **JWT**: JSON Web Token (used for secure login).
- **DTO**: Data Transfer Object (used to send data between backend and frontend).
- **SRS** — Software Requirements Specification

### 1.4. References

- IEEE Std 1058-1998 (and subsequent revisions) — Software Project Management Plan standard.
- Google Document AI & Google Cloud docs (for proposed parsing integration).
- Apache POI docs (for DOCX parsing).
- PDF.js docs (for PDF extraction).

## 2. Overall Description

### 2.1. Product perspective

The system operates on a client-server architecture:

- **Frontend:** Built with ReactJS and Tailwind CSS for the user interface.
- **Backend:** Built with Java Spring Boot for logic and API management.
- **Database:** Uses Supabase PostgreSQL / MySQL to store user data, documents, and scores.
- **File Storage:** Stores uploaded PDF/DOCX files locally on the server.

### 2.2. User characteristics

- **Student:** College students submitting project plans. They need to see if their document passes the format requirements and check what tasks they need to do.
- **Professor:** Instructors grading the plans. They need to see all student submissions, customize how much each section of the document is worth (grading criteria), and intervene if the AI score is wrong.
- **Admin:** (Internal use) Manages user accounts and system status.

### 2.3. Operating Environment

- **Client:** Modern browsers (Chrome, Firefox, Edge), mobile and desktop responsive.
- **Server:** Hosted on Render (Free Tier) with Node.js backend.
- **Database:** Supabase PostgreSQL / MySQL
- **File Storage:** Supabase Storage / Local Server Storage.
- **Security:** All communications over HTTPS/TLS.

### 2.4. Constraints

- Initial language support: English only.
- Free-tier cloud services (Supabase, Render, Vercel).
- Must comply with IEEE 1058 structure.
- Budget/time constraints restrict advanced NLP model training; reliance on rule-based checks + third-party parsing/AI APIs.
- Concurrency target: 50–100 simultaneous evaluations without performance degradation.

### 2.5. Assumptions and dependencies

- Stable internet connection for cloud access.
- Supabase services available within free tier limits.
- Users provide a valid email address during registration
- Universities provide sample SPMPs for validation.

## 3. Specific Requirements

### 3.1. External interface requirements

#### 3.1.1. Hardware interfaces

- Clients: Any desktop/laptop/smartphone with a modern browser.
- Server: Requires storage space for uploaded document files.

#### 3.1.2. Software interfaces

- **Backend:** Java Spring Boot (Java 21)
- **Database:** Supabase PostgreSQL /MySQL
- **Libraries:** Apache PDFBox (for reading PDFs) and Apache POI (for reading Word docs).
- **Authentication:** Supabase Auth with JWT-based session tokens.
- **File Storage:** Supabase Storage.

#### 3.1.3. Communications interfaces

- HTTPS/TLS enforced for all communication.
- REST APIs between frontend and backend.

## **3.2. Functional requirements**

### **Module 1: Authentication & Security**

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#### **1.1 User Registration and Login**

##### **Use Case Diagram**

**Actors:**

Student

Professor

**Use Cases:**

Register Account

Login to System

**Relationships:**

Student → Register Account

Professor → Register Account

Student → Login to System

Professor → Login to System

Register Account includes selecting a User Role (Student/Professor).

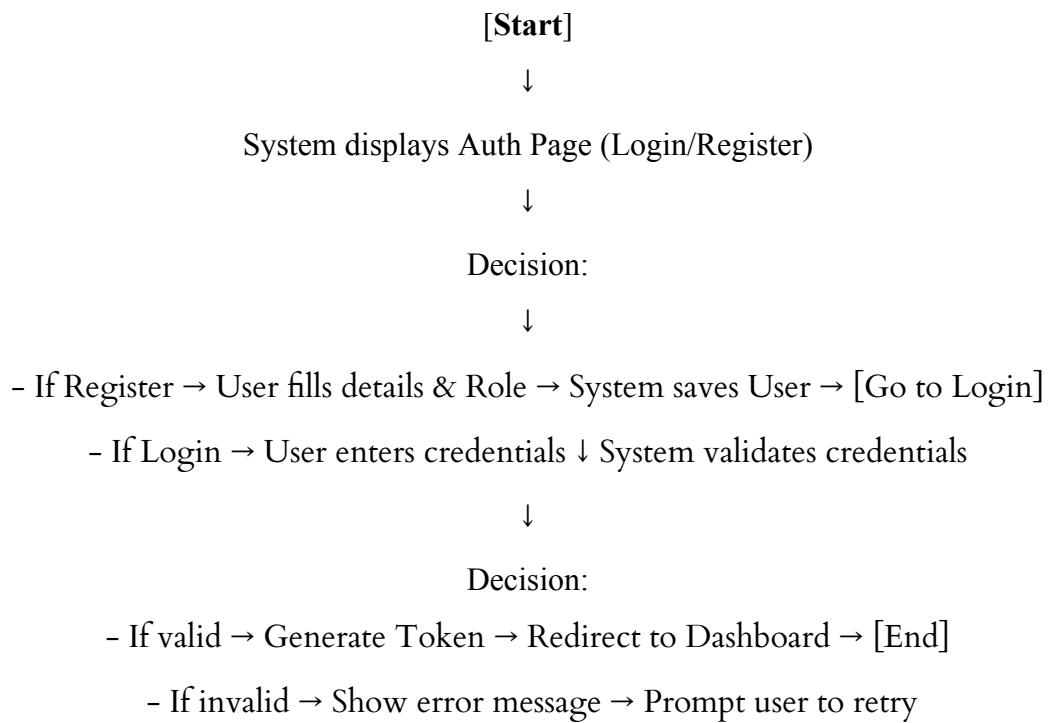
**System Boundary:** Authentication & Security Module

## Use Case Description

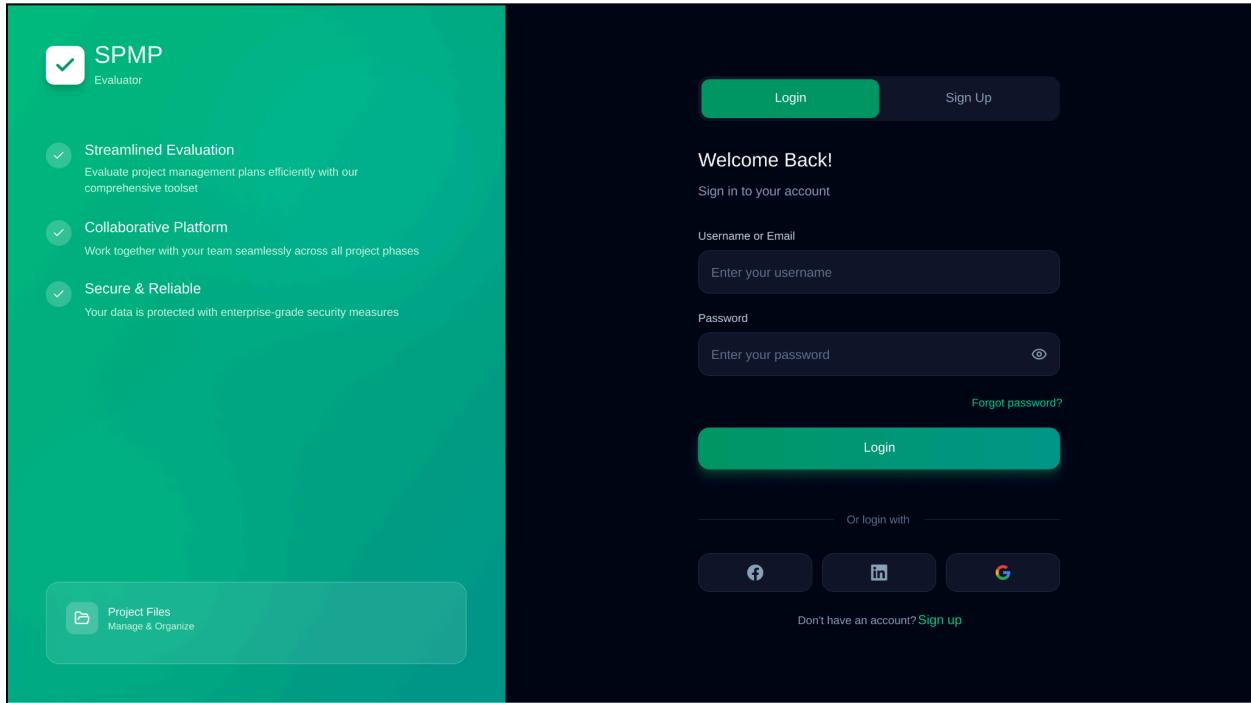
Section	Details
<b>Use Case ID</b>	UC 1.1
<b>Use Case Name</b>	User Registration and Login
<b>Primary Actors</b>	Student, Professor
<b>Secondary Actor(s)</b>	System Database
<b>Description</b>	Allows users to create a new account by selecting a role or log in to an existing account using email and password to access the dashboard.
<b>Preconditions</b>	Users must have a valid email address. The system must be online.
<b>Basic Flow</b>	<ol style="list-style-type: none"><li>1. The user opens the application.</li><li>2. User toggles between "Sign Up" or "Sign In".</li><li>3. For Registration: User enters First Name, Last Name, Email, Username, Password, and selects Role.</li><li>4. For Login: User enters Username/Email and Password.</li><li>5. System validates inputs (e.g., password strength, email format).</li><li>6. The system authenticates credentials against the database.</li><li>7. The system generates a session token (JWT).</li><li>8. The user is redirected to the Dashboard.</li></ol>
<b>Alternative Flows</b>	A1: Invalid Password. A2: Email/Username Already Exists.  If the email/password is incorrect, the system displays "Invalid credentials" and asks the user to retry.
<b>Postconditions</b>	The user is authenticated and has access to role-specific features.

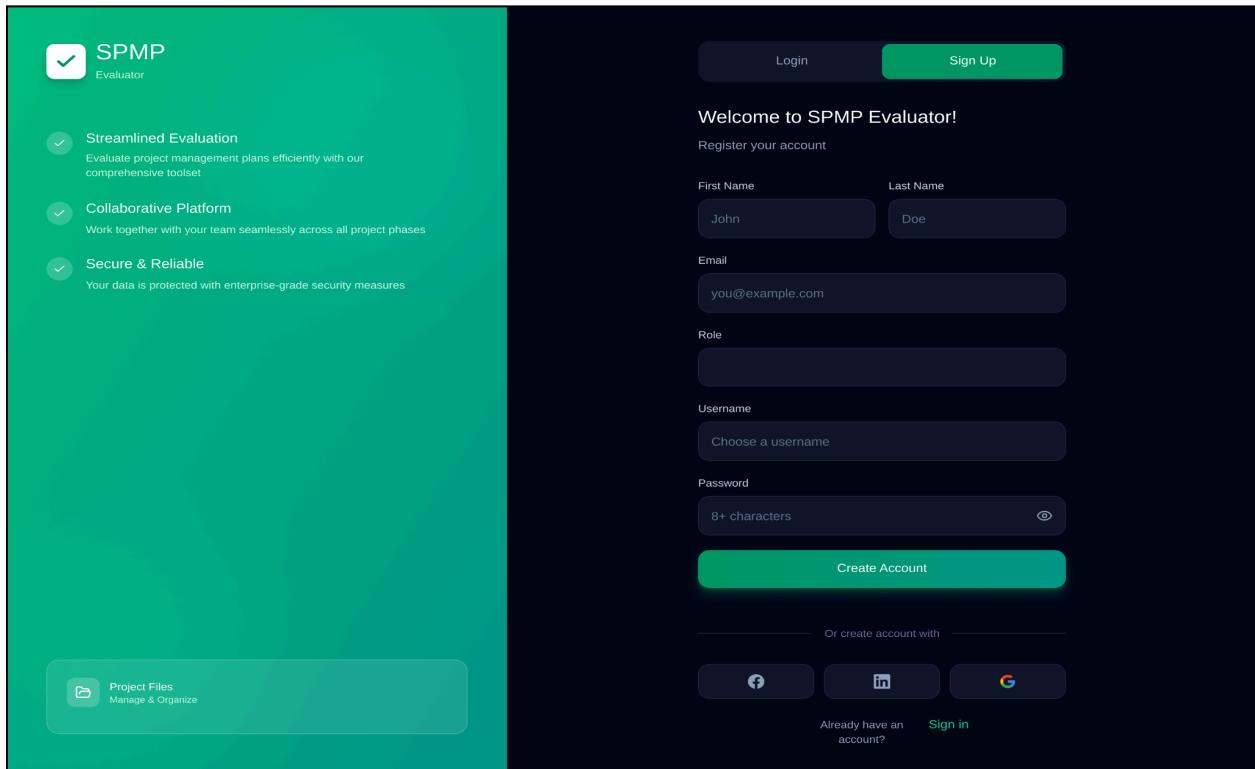
Exceptions	E1: Server Error.  If the backend is down, display "Service Unavailable".
------------	---

## Activity Diagram



## Wireframe:





## Module 2 : Role-Based User Interface Transactions

### 2.1 Student Document (CRUD)

#### Use Case Diagram

Actors:

Student

Use Cases:

Upload SPMP Document

View Uploaded Documents

Edit (Re-upload) Document

Delete Document

View Assigned Tasks

View Task Status

Relationships:

Student → Upload SPMP Document

Student → View Documents

Student → Edit Document

Student → Delete Document

Student → View Assigned Tasks

Student → View Task Status

**System Boundary:**

Student Document & Task Management Module

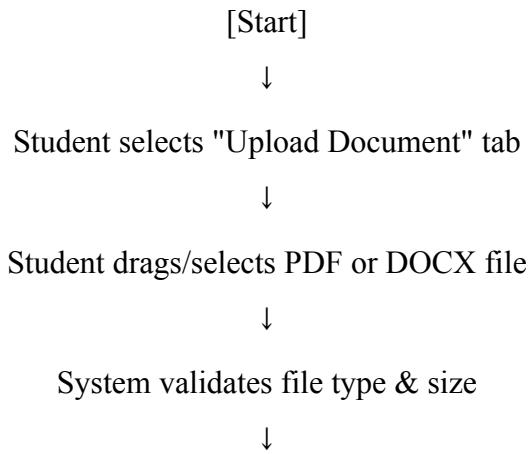
**Use Case Description**

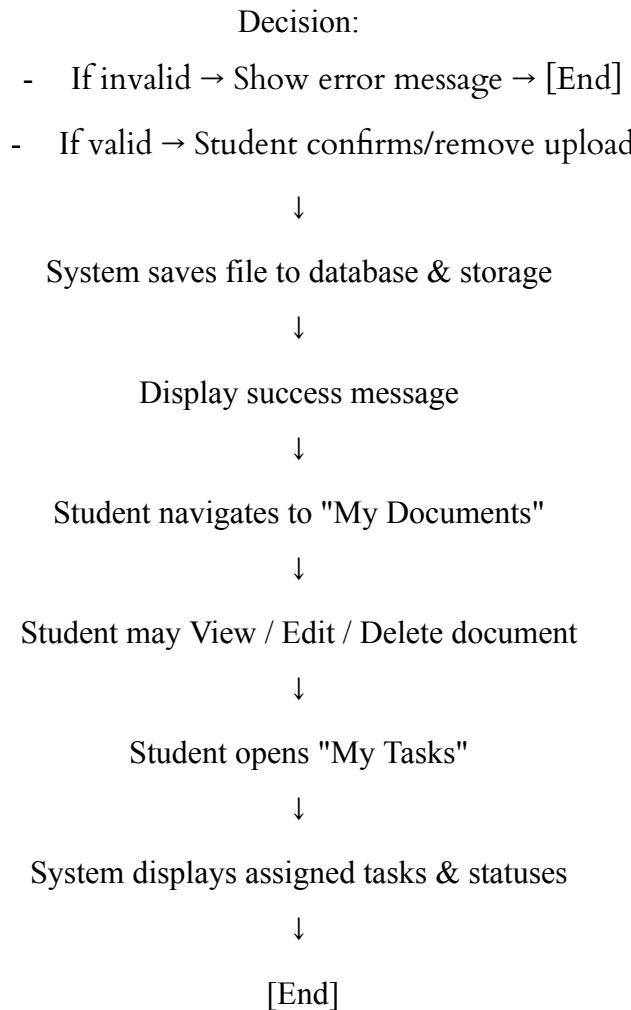
Section	Details
Use Case ID	UC 2.1
Use Case Name	Student
Primary Actors	Student
Secondary Actor(s)	System File Storage, Database, Professor (Task Assigner)
Description	Allows the student to upload, view feedback, edit (replace), and delete their SPMP documents from the My Documents section. Students can also view their assigned tasks and task status from the My Tasks section, as assigned by the professor.
Preconditions	The student is logged in. File must be PDF or DOCX format.

Basic Flow	<p>A. Document Management (CRUD)</p> <ol style="list-style-type: none"><li>1. Student navigates to the Upload Document tab.</li><li>2. The student drags and drops a file or clicks Browse.</li><li>3. System validates:<ul style="list-style-type: none"><li>• File type (.pdf, .docx)</li><li>• <b>File size (<math>\leq</math> 50MB)</b></li></ul></li><li>4. Students click Upload.</li><li>5. The system saves files to storage.</li><li>6. The system adds the file to My Documents with status Pending.</li><li>7. Student navigates to My Documents to view all uploaded documents.</li><li>8. Student may:<ul style="list-style-type: none"><li>• View a document or its evaluation feedback</li><li>• Edit (Replace) by uploading a new version</li><li>• Delete the document</li></ul></li></ol> <p>B. Task Viewing (Professor-Assigned Tasks)</p> <ol style="list-style-type: none"><li>9. The student opens the My Tasks tab.</li><li>10. System displays:<ul style="list-style-type: none"><li>• Task Title</li><li>• Description</li><li>• Due Date</li><li>• Task Status (Pending, Completed, Overdue)</li><li>• Priority</li></ul></li><li>11. The student selects a task to update task status</li></ol>
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	(e.g., mark as completed or pending).
Alternative Flows	A1: File too large. If the file is > 50MB, the system shows "File exceeds limit". A2: Wrong Format. If the file is .exe or image, the system rejects upload.
Postconditions	Document is queued for the AI Parser (Module 3).
Exceptions	E1: Upload Failed. Network interruption causes upload to fail; prompt retry.

## Activity Diagram





## 2.2 Professor Task Creation

### Use Case Diagram

#### Actors:

Professor

#### Use Cases:

View Student Submissions\

View Student List and progress

Create Task

Assign Task

Edit Task

Delete Task

**Relationships:**

Professor → View Submissions

Professor → Manage Tasks (Create/Edit/Delete)

Create Task → includes Assign Task

Professor → View Student List

Professor → View Student Progress

**System Boundary:**

Professor Dashboard Module

**Use Case Description**

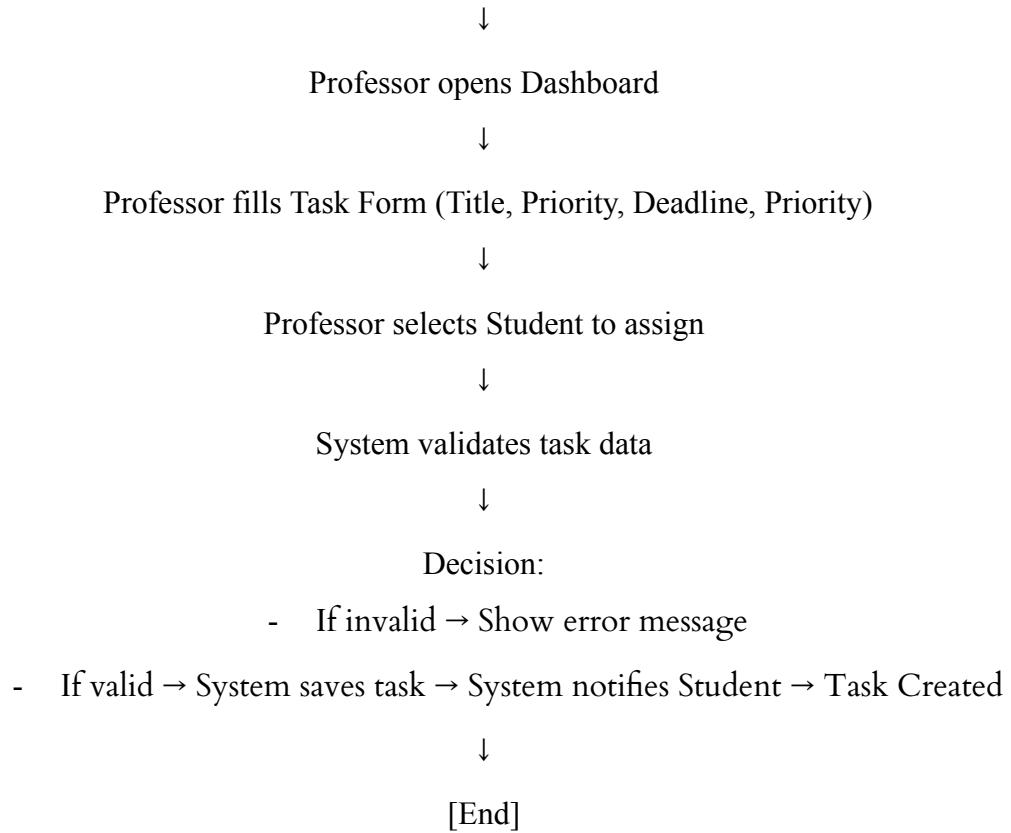
Section	Details
Use Case ID	UC 2.6
Use Case Name	Professor Task Creation & Dashboard Management
Primary Actors	Professor
Secondary Actor(s)	Student (Task receivers), Database, File Storage
Description	<p>The professor can:</p> <ul style="list-style-type: none"><li>• View all student submissions (Pending/Evaluated)</li><li>• Create, edit, and delete tasks for specific students</li><li>• Assign tasks directly to a chosen student</li><li>• View student list and their performance</li><li>• Monitor student progress and task completion</li><li>• Manage evaluation weights (IEEE 1058) via Grading</li></ul>

	<p>Criteria</p> <ul style="list-style-type: none"><li>● Optionally configure parser settings</li></ul>
Preconditions	The professor is logged in. The student list is loaded.
Basic Flow	<p>A. Submission Viewing</p> <ol style="list-style-type: none"><li>1. The professor opens the Submissions tab.</li><li>2. System displays all uploaded documents with:<ul style="list-style-type: none"><li>● Student name</li><li>● Document title</li><li>● Submission date</li><li>● Status (Pending/Evaluated)</li></ul></li><li>3. The professor filters or searches submissions.</li></ol> <p>B. Task Manager (CRUD)</p> <p>Create Task</p> <ol style="list-style-type: none"><li>1. Professor opens Task Manager.</li><li>2. Clicks Create Task.</li><li>3. Enter Title, Description, Deadline, Priority.</li><li>4. Selects a Student (required).</li><li>5. Clicks Create Task.</li><li>6. The system saves and notifies students.</li></ol> <p>Edit Task</p> <ol style="list-style-type: none"><li>1. The professor selects an existing task.</li><li>2. Modifies details.</li><li>3. Update Task.</li></ol> <p>Delete Task</p>

	<ol style="list-style-type: none"><li>1. The professor selects a task.</li><li>2. Clicks Delete.</li><li>3. The system removes tasks from the database.</li></ol> <p>Student List</p> <ol style="list-style-type: none"><li>1. Professor opens Student List.</li><li>2. System Displays:<ul style="list-style-type: none"><li>• Student name &amp; email</li><li>• Total Documents</li><li>• Average Class Score</li><li>• Task Completion</li><li>• Compliance Rate</li></ul></li><li>3. Professor can Export CSV file</li></ol> <p>D. Grading Criteria</p> <ol style="list-style-type: none"><li>1. Professor Opens Grading Criteria</li><li>2. System Shows IEEE 1058 weights</li><li>3. Professor may adjust weights, saves changes</li></ol>
Alternative Flows	A1: If no student is selected, return a message and prompt the user to select a specified student.
Postconditions	Students see the new task in their "My Tasks" dashboard.
Exceptions	E1: Database Error.  Task fails to save; error message displayed.

## Activity Diagram

[Start]



Student Wireframe:

SPMP  
Evaluator

Welcome, Student 1  Logout

 Overview  Upload Document  My Documents  My Tasks

Dashboard Overview  
Welcome back! Here's your activity summary.

 Total Documents	3	 Evaluated	2	 Pending	1	 Issues	0
---	---	---	---	---	---	--	---

Recent Activity

- Document evaluated: Project\_Plan\_v2.pdf 2 hours ago
- Document uploaded: SPMP\_Final.docx 1 day ago

SPMP  
Evaluator

Welcome, Student 1  Logout

 Overview  Upload Document  My Documents  My Tasks

Upload SPMP Document  
Upload your Software Project Management Plan for IEEE 1058 compliance evaluation

  
Drop your file here or click to browse  
Supports .PDF and .DOCX files (up to 10MB)  
[Browse Files](#)

The screenshot shows the user interface of the SPMP Evaluator application. At the top, there is a navigation bar with the title "SPMP Evaluator". On the right side of the navigation bar, there are links for "Welcome, Student 1", a notification bell icon, and a "Logout" button. Below the navigation bar, there is a horizontal menu with four items: "Overview" (with a bar chart icon), "Upload Document" (with a plus sign icon), "My Documents" (with a folder icon, currently selected), and "My Tasks" (with a checkmark icon). The main content area is titled "My Documents" and contains the sub-instruction "Manage and evaluate your uploaded documents". Below this, there is a card for a document named "Example\_of\_Software\_Project\_Management.pdf". The card includes the following details: the document icon, the file name, the upload date ("Uploaded: Dec 8, 2025, 05:19 PM"), and three action buttons: "Evaluate", "Edit", and "Delete". To the right of the document card, there is a small callout box labeled "Pending Evaluation". A search bar is located at the top right of the content area.

[← Back to Documents](#) [Print](#) [PDF](#) [Excel](#)

SPMPEvaluator\_SRS\_Team02\_2025-2026(09\_24\_2025).docx  
↗ IEEE 1058 Compliance Evaluation Report

**Overall Compliance Score**  
Based on IEEE 1058 standard evaluation

**89.67%**  Compliant

[↗ Section-by-Section Analysis](#)

Section	Weight	Score (%)
1 Project Overview	MEDIUM 5%	71 %
2 Documentation Plan	MEDIUM 5%	53 %
3 Master Schedule	HIGH 5%	0 %
4 Project Organization	MEDIUM 7%	56 %
5 Standards, Practices, and Conventions	MEDIUM 8%	61 %
6 Risk Management	HIGH 10%	43 %
7 Staff Organization	MEDIUM 15%	62 %
8 Budget and Resource Planning	HIGH 10%	51 %
9 Reviews and Audits	MEDIUM 7%	61 %
10 Problem Resolution	MEDIUM 10%	58 %
11 Change Management	MEDIUM 8%	51 %
12 Glossary and Appendices	MEDIUM 3%	61 %

[↗ Summary & Next Steps](#)

Your SPMP document shows strong compliance with IEEE 1058 standards. Minor improvements may still be beneficial.

[↗ Score History](#)

No previous evaluations recorded.

My Tasks

Track your assignments and deadlines

- Upload final SPMP document high  
Submit the final version of your Software Project Management Plan  
⌚ Due: Dec 15, 2025
- Review evaluation feedback medium  
Check the compliance report and address any issues  
⌚ Due: Dec 12, 2025
- Initial document upload high  
Upload first draft for preliminary evaluation  
⌚ Due: Dec 8, 2025

## Professor Wireframe:

The wireframe shows the Professor Dashboard Overview page. At the top, there is a navigation bar with links for Overview, Submissions, Task Manager, Student List, Student Progress, Grading Criteria, and Parser Configuration. A welcome message "Welcome Professor 1" and a "Logout" button are also present. Below the navigation bar is a large red banner titled "Professor Dashboard Overview". The banner contains a brief description: "Monitor student submissions, track compliance scores, manage tasks, and oversee IEEE 1058 evaluation progress across your class." It features two buttons: "View All Submissions" and "Create New Task". To the right of the banner is a large circular icon with a ribbon symbol. Below the banner are four summary cards: "Total Students" (24), "Submissions" (18), "Evaluated" (12), and "Class Average" (86.0%). Each card has a small icon and a status message. The main content area includes sections for "Recent Submissions" (listing three students with their files and scores) and "Quick Actions" (with options like Create New Task, Review Submissions, Export Reports, and Upcoming Deadline). The footer contains copyright information and links to Help Center, Documentation, and Support.

Professor Dashboard Overview

Monitor student submissions, track compliance scores, manage tasks, and oversee IEEE 1058 evaluation progress across your class.

[View All Submissions](#) [Create New Task](#)

24 Total Students 18 Submissions 12 Evaluated 86.0% Class Average

**Recent Submissions**

View All

Student	File Name	Status
Student 1	SPMPEvaluator_SRS_Team02.docx	Compliant
Student 2	Project_Management_Plan.pdf	Compliant
Student 3	SPMP_Final_Draft.docx	Pending

**Quick Actions**

- Create New Task
- Review Submissions
- Export Reports
- Upcoming Deadline

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Help Center Documentation Support

Overview Submissions Task Manager Student List Student Progress Grading Criteria Parser Configuration

### Student Submissions

3 Total Submissions    3 Evaluated    0 Pending    86.0 % Score

Search by student name or file...

Student	Document	Submitted	Status	Actions
Student 1 test1@gmail.com	Example_of_Software_Project_Manageme...	Dec 8, 2025, 08:18 PM	Needs Work (76%)	<a href="#">View</a> <a href="#">Override</a>
Student 1 test1@gmail.com	SPMPEvaluator_SRS_Team02_2025-2026(0...	Dec 8, 2025, 08:34 PM	Compliant (91%)	<a href="#">View</a> <a href="#">Override</a>
Student 1 test1@gmail.com	SPMPEvaluator_SRS_Team02_2025-2026(0...	Dec 8, 2025, 08:54 PM	Compliant (91%)	<a href="#">View</a> <a href="#">Override</a>

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Welcome, Professor 1 Logout

Overview Submissions Task Manager Student List Student Progress Grading Criteria Parser Configuration

### Task Manager

1 Total Tasks    0 Completed    1 Pending

Upload SPMP File HIGH

Upload SPMP File (DOCX/PDF) File\*

Student 1 Due: Dec 9, 2025, 08:56 PM

Help Center Documentation Support

 SPMP  
Evaluator

Welcome Professor 1  

 Overview  Submissions  Task Manager  Student List  Student Progress  Grading Criteria  Parser Configuration

 Class Performance Summary

 1 Total Students

 56.75% Avg. Class Score

 1/2 Evaluated/Total Docs

 91% Task Completion

Students Meeting Compliance ( $\geq 80\%$ ) 0/1 students

 Student Progress 

 Search by name or email...

 Student 1  
Test@gmail.com

3 Docs 56.75% Avg Score 1/1 Tasks



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 SPMP  
Evaluator

Welcome, Professor 1  

[Overview](#) [Submissions](#) [Task Manager](#) [Student List](#) [Student Progress](#) [Grading Criteria](#) [Parser Configuration](#)

 Grading Criteria  
Customize IEEE 1058 section weights for document evaluation

Total Weight:  
**100%**

 IEEE 1058 Sections

Section	Weight	%
1. Scope	8	8%
2. Standards References	5	5%
3. Definitions	5	5%
4. Project Overview	10	10%
5. Project Organization	10	10%
6. Managerial Process	15	15%
7. Technical Process	15	15%
8. Work Packages	10	10%
9. Schedule	10	10%
10. Risk Management	7	7%
11. Closeout Plan	3	3%
12. Annexes	2	2%

 Save Grading Criteria  
Changes will be applied to all future document evaluations.

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[Help Center](#) [Documentation](#) [Support](#)

## **Module 3 : Document Parsing**

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### **3.1 Automated Parser Module**

#### **Use Case Diagram**

##### **Actors:**

Student (Trigger), System (Executor)

##### **Use Cases:**

Parse Document, Analyze Keywords

##### **Relationships:**

Student → Upload (Triggers Analysis)

System → Parse Document

System → Analyze Keywords

##### **System Boundary:**

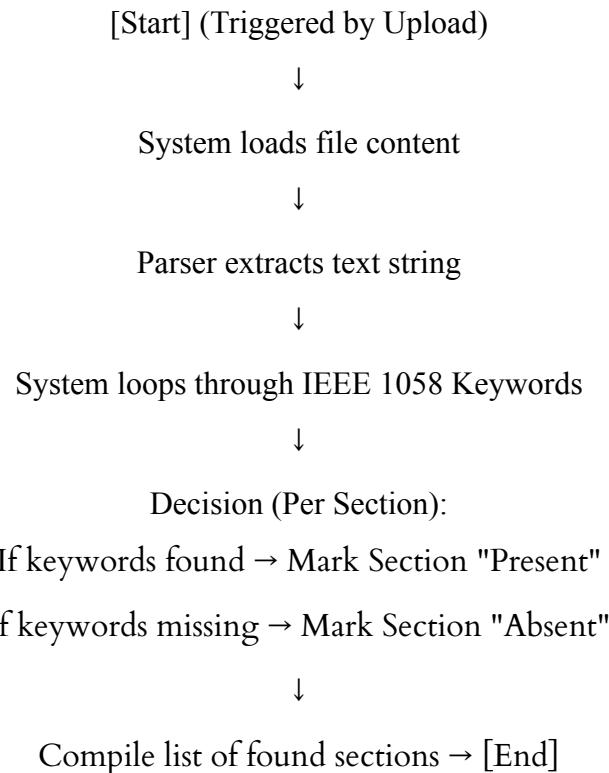
AI Parser Module

#### **Use Case Description**

Section	Details
Use Case ID	UC 3.1
Use Case Name	Automated Compliance Check
Primary Actors	System (Automated)
Secondary Actor(s)	Student
Description	The system automatically reads the uploaded text and checks if it contains required IEEE 1058 sections (e.g., "Overview", "Risk Management").
Preconditions	A file has been successfully uploaded.

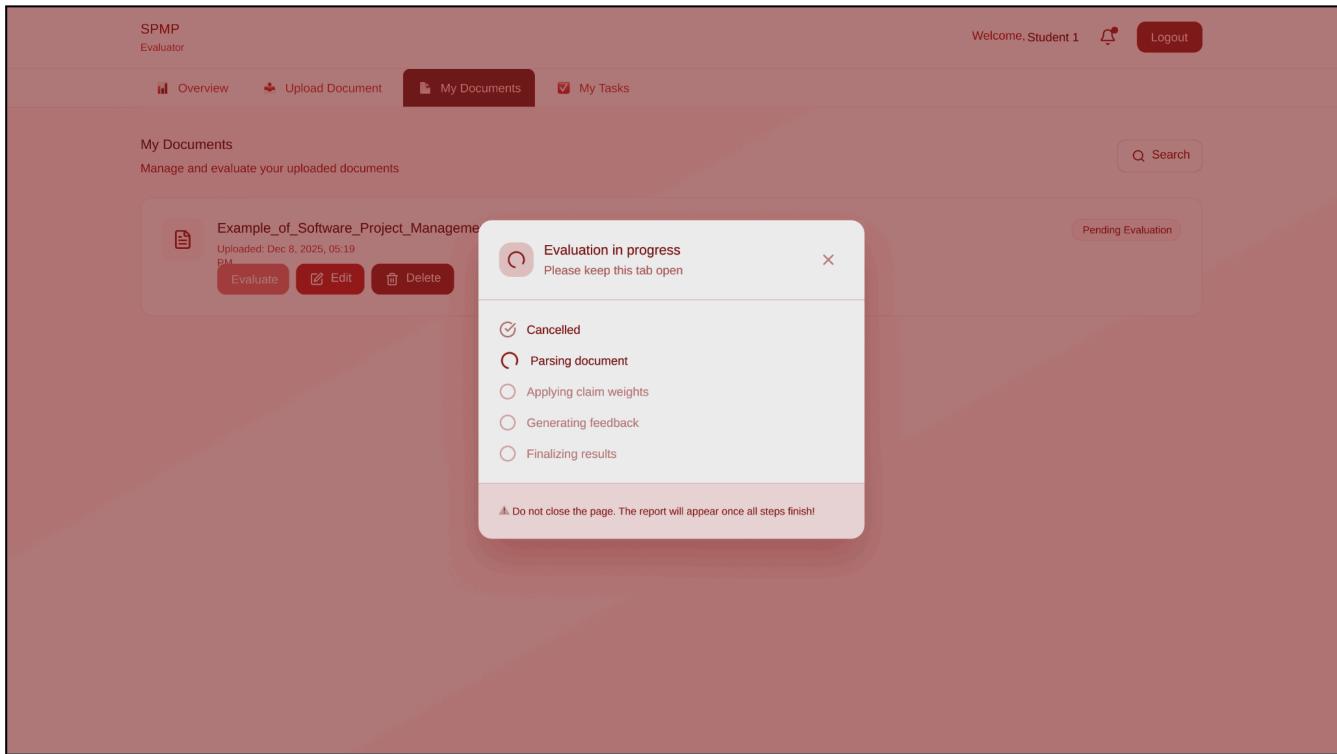
Basic Flow	<ol style="list-style-type: none"><li>1. The system retrieves the file path.</li><li>2. Document Parser extracts text content from PDF or DOCX.</li><li>3. The system converts text to lowercase for analysis.</li><li>4. System scans text against IEEE 1058 keyword list (e.g., "Project Organization", "Managerial Process").</li><li>5. System flags which sections are Present vs. Missing.</li><li>6. The system calculates a raw completeness score.</li></ol>
Alternative Flows	A1: Unreadable Text.  If PDF is a flat image scan (no text layer), text extraction fails. System returns 0 score.
Postconditions	Parsing data is ready for the Scoring Module (Module 4).
Exceptions	E1: Corrupt File.  Parser crashes on read; log error and notify user.

## Activity Diagram



## Wireframe:

The wireframe shows a user interface for uploading a Software Project Management Plan (SPMP) document. At the top, there is a header with the title "SPMP Evaluator". On the right side of the header are links for "Welcome, Student 1" (with a dropdown arrow), "Logout", and a red button. Below the header is a navigation bar with four items: "Overview" (selected), "Upload Document" (highlighted in red), "My Documents", and "My Tasks". A sub-header "Upload SPMP Document" and a sub-instruction "Upload your Software Project Management Plan for IEEE 1058 compliance evaluation" are displayed. A large central area contains a file upload box with a red border, showing a file named "Example\_of\_Software\_Project\_Management\_P.pdf" (0.23 MB). Below this box is a message: "Document uploaded! Go to 'My Documents' and click 'Evaluate' to run the analysis." At the bottom of the page, there is a copyright notice "© 2025 SPMP Evaluator. Professor Portal for Academic Excellence.", and links for "Help Center", "Documentation", and "Support".



## **Module 4 : Scoring & Reporting**

### **4.1 View Evaluation Results**

#### **Use Case Diagram**

**Actors:**

Student, Professor

**Use Cases:**

View Score

View Feedback

**Relationships:**

Student → View Score

Professor → View Score

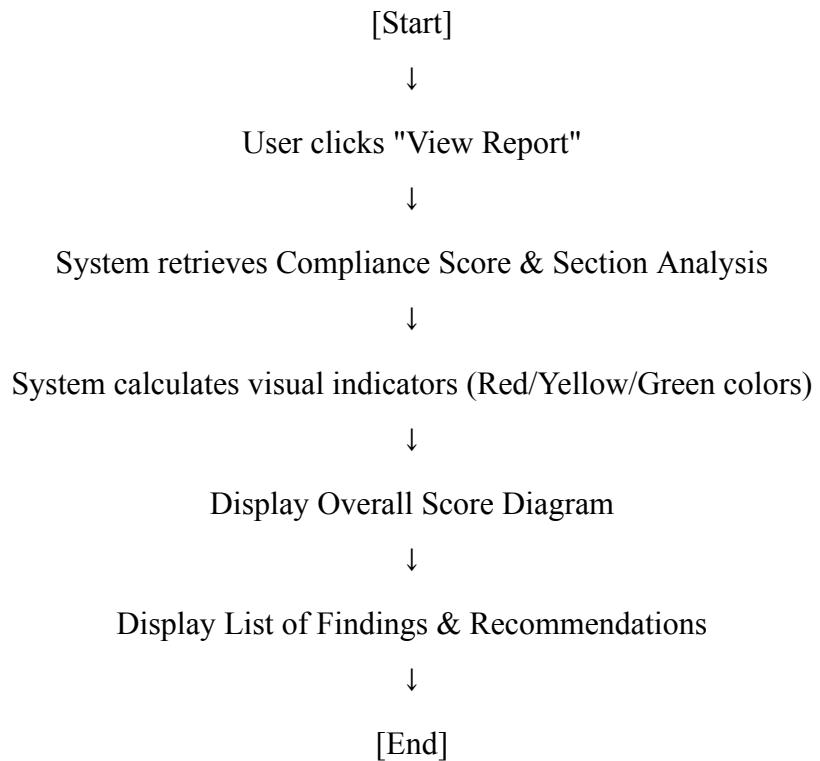
**System Boundary:**

Reporting Module

## Use Case Description

Section	Details
Use Case ID	UC 4.5
Use Case Name	View Evaluation Results
Primary Actors	Student, Professor
Secondary Actor(s)	System
Description	Users view the calculated compliance score, detailed section analysis, and recommendations for improvement.
Preconditions	Document has been parsed and evaluated.
Basic Flow	<ol style="list-style-type: none"><li>1. The user clicks "View Report" on a document.</li><li>2. The system fetches evaluation data from the database.</li><li>3. The system displays the Overall Score (0-100%).</li><li>4. The system displays visual badges (Green=Compliant, Red=Non-Compliant).</li><li>5. The system lists specific findings and recommendations for missing sections.</li><li>6. The user reviews the feedback.</li></ol>
Alternative Flows	A1: Professor Override.  The professor clicks "Override", enters a manual score, and saves. Report updates.
Postconditions	The user is informed of the document's quality status.
Exceptions	E1: Report Not Found.  Data missing; show error message.

## Activity Diagram



## Student Wireframe:

The wireframe shows the 'My Documents' section of the SPMP Evaluator application. At the top, there is a navigation bar with links for 'Overview', 'Upload Document', 'My Documents' (which is selected), and 'My Tasks'. On the right side of the navigation bar are 'Welcome, Student 1', a notification bell icon, and a 'Logout' button.

The main content area is titled 'My Documents' and contains the sub-instruction 'Manage and evaluate your uploaded documents'. Below this, there is a card for a document named 'Example\_of\_Software\_Project\_Management.pdf'. The card includes the following details:

- Icon representing a document.
- Name: Example\_of\_Software\_Project\_Management.pdf
- Uploaded: Dec 8, 2025, 05:19 PM
- Compliance Score: 89.67%
- Status: Evaluated (indicated by a small orange box).

At the bottom of the card, there are four buttons: 'View Report', 'Re-evaluate', 'Edit', and 'Delete'.

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SPMPEvaluator\_SRS\_Team02\_2025-2026(09\_24\_2025).docx  
↗ IEEE 1058 Compliance Evaluation Report

**Overall Compliance Score**  
Based on IEEE 1058 standard evaluation

**89.67%**  Compliant

[↗ Section-by-Section Analysis](#)

Section	Weight	Score (%)
Project Overview	MEDIUM 5%	71 %
Documentation Plan	MEDIUM 5%	53 %
Master Schedule	HIGH 5%	0 %
Project Organization	MEDIUM 7%	56 %
Standards, Practices, and Conventions	MEDIUM 8%	61 %
Risk Management	HIGH 10%	43 %
Staff Organization	MEDIUM 15%	62 %
Budget and Resource Planning	HIGH 10%	51 %
Reviews and Audits	MEDIUM 7%	61 %
Problem Resolution	MEDIUM 10%	58 %
Change Management	MEDIUM 8%	51 %
Glossary and Appendices	MEDIUM 3%	61 %

[↗ Summary & Next Steps](#)

Your SPMP document shows strong compliance with IEEE 1058 standards. Minor improvements may still be beneficial.

[↗ Score History](#)

No previous evaluations recorded.

## 3.4 Non-functional requirements

### Performance (High)

- The login process should complete quickly ( $\leq 2$  seconds) under normal conditions.
- Transactions (uploads, task creation, monitoring, report generation) must complete within 3 seconds under normal load.
- File analysis must finish in under 10 seconds for a standard-length report (<50 pages).
- Score generation must complete within 5 seconds per submission under normal load.

### Security (High)

- The system must enforce encryption, secure communication (SSL/TLS), and safe password handling to prevent breaches.
- Enforce strict role-based access control for all features.
- All uploaded files must be sanitized, encrypted in transit and at rest, and isolated from training datasets.
- Only authorized users (Professors) can view, modify, or override scores.

### Reliability (High)

- The system should remain consistently available (99.9% uptime) for authentication services.
- Ensure 99.9% uptime for role-specific operations and AI services.

### Accuracy & Precision (High)

- The parser must correctly identify formatting and compliance issues with at least 85–90% accuracy, and avoid false positives.

### Consistency (High)

- Given the same input file, the parser must return the same result every time (determinism).
- Identical inputs must always yield the same score unless deliberately overridden.

### Usability (Medium)

- The login interface should be simple enough for first-time users to log in without confusion.
- Tailor each role's UI to their responsibilities for clarity and simplicity.

### Auditability (Medium)

- All login attempts (successful or failed) must be logged for monitoring and security reviews.
- Log all role actions (uploads, overrides, assignments, AI report generation) with timestamps.
- Every evaluation must be logged with input metadata, compliance results, and timestamps.

### Explainability (Medium)

- Feedback must clearly indicate which standard was violated and why.

## **Scalability (Medium)**

- *The parser should support at least 50–100 concurrent file evaluations without degrading accuracy or speed.*
- *The system must support batch scoring (e.g., 50+ submissions in one run) without degradation.*

## **Maintainability (Medium)**

- *Standards-checking rules (IEEE, APA, etc.) must be easily updatable without retraining the entire AI model.*
- *Role-specific scoring criteria must be configurable without rewriting the entire module.*