Software Requirement Specification (SRS)

# Project: Intern Progress Tracker

## Company: Fidelity National Financial India

# 1. Introduction

## 1.1 Purpose

The Intern Progress Tracker is designed to simplify and automate the process of task assignment, progress tracking, and performance evaluation of interns at Fidelity National Financial. This system enables trainers and managers to monitor intern performance, while interns can easily view and submit assigned tasks. Notifications ensure deadlines are not missed, and dashboards provide real-time insights.

## 1.2 Scope

- Actors: Admin (HR), Manager, Trainer, Intern.  
- Core Features:  
 • Intern login & profile management.  
 • Task assigns by trainer.  
 • Task submission by interns.  
 • Progress dashboard with charts/leaderboards.  
 • Notifications via email for reminders and updates.  
  
The system will be a web-based platform with a **React frontend, ASP.NET Core backend, and SQL Server database**. Notifications will be sent using a free and simple email service (SMTP).

## 1.3 Users

- Admin (HR): Manages system access, roles, and overall monitoring.  
- Manager: Monitors progress.  
- Trainer: Assigns tasks, reviews submissions, evaluate.  
- Intern: Login, views assigned tasks, uploads submissions, attempt quizzes and receives feedback.

# 2. Functional Requirements

## 2.1 User Authentication

- Secure login system.  
- Role-based access (Admin, Manager, Trainer, Intern).

## 2.2 Intern Management

- Intern Login with profile details (Id, name, email, department).  
- Interns can log in and view assigned tasks.  
- Interns can upload documents or submit quiz-based tasks.

## 2.3 Task Management

## - Trainers can create and assign tasks including quizzes.

## - Interns can view tasks and complete them. Quiz tasks redirect interns to Microsoft Forms.

## - Quiz responses are stored in Microsoft Forms and accessible to Trainer and Managers.

## 2.4 Progress Tracking

- Real-time dashboards for Admin, Manager, and Trainer.  
- Progress visualization using bar charts, pie charts, and leaderboards.  
- Performance metrics (task completion rate, punctuality, quality).

## 2.5 Notifications

- Email notifications for:  
 • New quizzes/task assignment.  
 • Upcoming deadlines.  
 • Missed deadlines.

# 3. Non-Functional Requirements

- Usability: Easy-to-use interface, responsive web app.  
- Performance: System should support at least 50 concurrent users.  
- Scalability: Should allow expansion for more interns.  
- Security: Password encryption, secure role-based access.  
- Reliability: Data should not be lost; backup support required.  
- Portability: Accessible from browsers (desktop).

1. **Technology Stack**

- Frontend: React (TypeScript), Bootstrap (UI), Axios

- Backend: ASP.NET Core & Web API

- Database: SQL Server (SSMS)

- Notifications: SMTP (free email services like Gmail/Outlook)

- External Quiz Integration: Microsoft Forms (Trainer creates quiz, Interns solve via link, responses visible to Trainer and Manager)

# 4. System Features (Summary)

1. Role-based Login: Admin, Manager, Trainer, Intern.  
2. Intern Login & Profile Management.  
3. Task Assignment & Submission.  
4. Progress Dashboard with Charts & Leaderboards.  
5. Email Notifications for Deadlines.

**4.1 Sequence Diagram**

