

Software Requirements Specification (SRS)

Student Onboarding Android App for Computer Science Training Institute

1. Introduction

1.1 Purpose: The purpose of this document is to define the requirements for an Android mobile application that helps onboard students into a Computer Science Training Institute. The app will allow students to register, submit details, choose courses, track admission status, and receive notifications.

1.2 Scope: The application will allow students to register, create profiles, view courses, apply for admission, track application status, and receive notifications. Admin users will manage courses, students, and approvals.

1.3 Target Users: Students (new and existing) and Institute Admin/Staff.

2. Overall Description

2.1 Product Perspective: This will be a standalone Android app connected to a backend server and database. Admin may access the system through a web or admin panel.

2.2 User Classes: Students can register, manage profiles, view courses, apply, and track status. Admin can manage courses, students, approvals, and notifications.

3. Functional Requirements

3.1 Authentication Module: Student registration, login/logout, admin login, and forgot password features.

3.2 Student Profile Management: Create and update profile with name, DOB, phone, email, address, education, photo, and document uploads.

3.3 Course Management (Student Side): View course list, view details such as duration, fees, syllabus, batch timings, and apply for courses.

3.4 Admission / Onboarding Flow: Student submits application, admin reviews and approves/rejects, student views status, and receives onboarding instructions on approval.

3.5 Notifications: Push notifications for application status, new batches, fee reminders, and announcements.

3.6 Admin Features: Add/edit/delete courses, view students, approve/reject applications, send notifications, and view basic reports.

4. Non-Functional Requirements

4.1 Performance: App should load main screens within 3 seconds and support 1000+ students.

4.2 Security: Secure login, encrypted sensitive data, and role-based access control.

4.3 Usability: Simple and clean UI, easy navigation, support for English (and later Tamil).

4.4 Compatibility: Android 8.0 and above, works on phones and tablets.

5. System Architecture (High Level)

Android App (Student App), Backend API, Database, and optional Admin Web Panel.

6. Future Enhancements

Online fee payment, attendance tracking, timetable, study materials download, chat system, and certificate download.

7. Assumptions & Constraints

Students have internet access, institute provides course data, admin manages approvals manually, and initial version focuses only on onboarding and admissions.