# **Test Case Document: Student-Teacher Appointment Booking System**

### **Module 1: User Registration**

TC-ST01 - Register with valid details

Steps: Enter name, email, password and click Register

Expected: User registered in Firebase Auth and student node

TC-ST02 - Register with empty fields

Steps: Leave fields blank and click Register

Expected: Show error or block submission

TC-ST03 - Register with invalid email

Steps: Use 'abc@' as email

Expected: Firebase error: invalid email

TC-ST04 - Register with short password

Steps: Enter password < 6 characters

Expected: Firebase error: weak password

## Module 2: User Login

TC-ST05 - Login with valid credentials

Steps: Enter valid email/password and click Login

Expected: User logged in successfully

TC-ST06 - Login with wrong password

Steps: Enter wrong password

Expected: Firebase error shown

TC-ST07 - Login with unregistered email

Steps: Enter unknown email

Expected: Firebase error: user not found

TC-ST08 - Leave login fields empty

Steps: Click Login without entering data

Expected: Block login, show message

### **Module 3: Appointment Booking**

TC-ST09 - Book valid appointment

Steps: Login -> Fill form -> Click Book

Expected: Appointment stored in Firebase with pending status

TC-ST10 - Book with empty fields

Steps: Leave one or more fields empty

Expected: Prevent booking, show validation

TC-ST11 - Booking without login

Steps: Access booking tab directly

Expected: Redirect or block access

TC-ST12 - Duplicate booking (same slot)

Steps: Try booking same teacher/date/time

Expected: Handle based on system logic

TC-ST13 - Store message with booking

Steps: Enter message and book

Expected: Message saved in Firebase

#### Module 4: Firebase Realtime Database Structure

TC-ST14 - Appointment stored under student

Steps: Book and check Firebase

Expected: Stored under student/appointments/{userId}

TC-ST15 - Correct teacherld in booking

Steps: Book with a teacher

Expected: teacherId matches selection

TC-ST16 - Message saved correctly

Steps: Add message while booking

Expected: Message present in appointment data

#### Module 5: UI/UX Behavior

TC-ST17 - Tab switching

Steps: Click tabs on UI

Expected: Correct section is displayed

TC-ST18 - Responsive layout

Steps: Resize or use mobile view

Expected: Layout adapts correctly