# Testing Table – SAT Task

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Bug ID** | **Component** | **Issue Description** | **Error Message** | **Severity** | **Status** | **Resolution** | **Time to Fix** |
| BUG-001 | Setup | PowerShell execution policy blocking npx | "cannot be loaded because running scripts is disabled" | High | ✅ Fixed | Changed PowerShell execution policy to RemoteSigned | 5 min |
| BUG-002 | Setup | Touch command not recognized in Windows CMD | "touch is not recognized as internal command" | Medium | ✅ Fixed | Used Windows alternatives: echo. > filename or PowerShell New-Item | 2 min |
| BUG-003 | Server | Missing dev script in package.json | "Missing script: dev" | Medium | ✅ Fixed | Added nodemon dev script to package.json | 3 min |
| BUG-004 | Routes | Router handler function error | "argument handler must be a function" | High | ✅ Fixed | Fixed route imports and exports in authRoutes.js | 15 min |
| BUG-005 | Routes | Path parsing error in Express routes | "Missing parameter name at 1: pathToRegexpError" | High | ✅ Fixed | Rebuilt route files step by step, syntax error in route definitions | 20 min |
| BUG-006 | Database | Database connection authentication failed | "password authentication failed for user postgre" | High | ✅ Fixed | Corrected username from 'postgre' to 'postgres' in .env file | 5 min |
| BUG-007 | Database | Case sensitivity in database name | "database StudyrDB does not exist" | Medium | ✅ Fixed | Updated .env to match exact database name case (StudyrDB) | 3 min |
| BUG-008 | Database | Sequelize dialect not specified | "Dialect needs to be explicitly supplied as of v4.0.0" | Medium | ✅ Fixed | Added DB\_DIALECT=postgres to .env file and proper dotenv loading | 8 min |
| BUG-009 | Models | User password hash validation error | "notNull Violation: User.passwordHash cannot be null" | High | ✅ Fixed | Fixed password hashing logic in userController registration | 12 min |
| BUG-010 | Migration | ENUM values not defined in migration | "Values for ENUM have not been defined" | High | ✅ Fixed | Updated migration file with proper ENUM value definitions | 25 min |
| BUG-011 | Models | Sequelize model association error | "called with something that's not a subclass of Sequelize.Model" | High | ✅ Fixed | Removed references to non-existent models (StudyPlan, UserSubjects) | 10 min |
| BUG-012 | API | Cannot DELETE route not found | "Cannot DELETE /api/subjects/uuid" | Medium | ✅ Fixed | Server restart required after adding new routes | 2 min |
| BUG-013 | Database | Column plan\_id doesn't exist | "column plan-id doesn't exist" | Medium | ✅ Fixed | Removed planId references from StudySession model | 8 min |

# API Endpoint Testing

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| --- | --- | --- | --- | --- | --- |
| **Endpoint** | **Method** | **Expected Response** | **Actual Response** | **Status** | **Test Data Used** |
| /api/auth/register | POST | 201 with user + token | ✅ 201 Success | Pass | Valid user data with all required fields |
| /api/auth/login | POST | 200 with user + token | ✅ 200 Success | Pass | Registered user credentials |
| /api/auth/profile | GET | 200 with user data | ✅ 200 Success | Pass | Valid JWT Bearer token |
| /api/auth/login | POST | 401 Invalid credentials | ✅ 401 Error | Pass | Non-existent user email |
| /api/auth/register | POST | 400 Validation error | ✅ 400 Error | Pass | Missing required fields |
| /api/subjects | GET | 200 with subjects array | ✅ 200 Success | Pass | Valid JWT token |
| /api/subjects | POST | 201 with created subject | ✅ 201 Success | Pass | Valid subject data (JAPLANG102) |
| /api/subjects/:id | GET | 200 with specific subject | ✅ 200 Success | Pass | Existing subject UUID |
| /api/subjects/:id | DELETE | 200 success message | ✅ 200 Success | Pass | Existing subject UUID |
| /api/subjects/:id | GET | 404 not found | ✅ 404 Error | Pass | Non-existent UUID |
| /api/subjects | GET | 401 unauthorized | ✅ 401 Error | Pass | No Bearer token |