

## Integration Testing Coverage Table

Test Case ID	Tested Units/Components	Description	Interaction Points	Expected Outcome	Actual Outcome
testCreatePost	UserController.java, PostServices.java, PostServices.js, Register.js, Login.js	Tests user registration, login, post creation, and deletion	register() calls /api/users/register, login() calls /api/users/login, postService() calls /api/users/postServices, logout() calls /api/users/logout, then delete() calls /api/users/delete	User is registered, logged in, creates a post, logs out, and is deleted successfully	User is registered, logged in, creates a post, logs out, and is deleted successfully
testRequestNew Password	UserController.java, EmailServices.java, Login.js, ForgetPassword.js, ResetPassword.js	Tests the password reset process	forgetPassword() calls /api/users/forgetPassword, EmailServices sends email, resetPassword() calls /api/users/resetpassword	User requests a password reset, receives email, resets password successfully	User requests a password reset, receives email, resets password successfully
testValidUser	UserController.java, Register.js	Tests user registration and deletion	register() calls /api/users/register, then delete() calls /api/users/delete	User is registered successfully, then deleted successfully	User is registered successfully, then deleted successfully
testValidLoginAndLogout	UserController.java, Register.js, Login.js,	Tests user registration, login, logout, and deletion	register() calls /api/users/register, login() calls /api/users/login, logout() calls /api/users/logout, then delete() calls /api/users/delete	User is registered, logged in, logged out, and deleted successfully	User is registered, logged in, logged out, and deleted successfully