## # Expense Tracker App - Test Automation

### ## Project Overview

This project automates testing for an Android Expense Tracker application using Appium with Python. The tests are executed on BrowserStack's cloud platform using real devices.

#### ## Tools Used

- \*\*Appium\*\*: Open-source test automation tool for mobile applications
- \*\*BrowserStack\*\*: Cloud platform for testing across real devices
- \*\*Selenium\*\*: Underlying framework for Appium WebDriver
- \*\*Python\*\*: Programming language for test scripts

### ## Test Cases Implemented

- 1. \*\*Registration Test\*\* Verifies app launch
- 2. \*\*Login Functionality Test\*\* Tests user authentication
- 3. \*\*Logout Test\*\* Validates logout functionality
- 4. \*\*Forgot Password Tests\*\*:
  - Valid email scenario
  - Invalid/empty email scenario
- 5. \*\*Dashboard Load Test\*\* Checks if dashboard loads by default
- 6. \*\*Navigation Drawer Test\*\* Tests side menu functionality

### ## Setup Instructions

## ### Prerequisites

- Python 3.7+
- Appium Python client: `pip install Appium-Python-Client`
- BrowserStack account (with valid credentials)

### ### Configuration

1. Update the following in each test file:

- `USERNAME` Your BrowserStack username
- `ACCESS\_KEY` Your BrowserStack access key
- `app` Your app's BrowserStack upload URL
- 2. Device capabilities can be modified in each test file's `caps` dictionary.

```
### Running Tests
```

Execute individual test files:

```bash

python test\_login.py

python test\_reg.py

python test\_logout.py

# etc.

. . .

## ## Test Reports

- Tests generate reports on BrowserStack with:
- Pass/fail status
- Execution videos
- Device logs
- Network logs

### ## Notes

- Tests are configured for Samsung Galaxy S21 with Android 11.0
- All tests use the same app build (`bs://bd814c27814f88c6119feaa1670af2a737dbb492`)
- Debugging features (video, network logs) are enabled by default

# ## Troubleshooting

- Check BrowserStack dashboard for detailed error logs
- Verify element IDs match your app's current implementation
- Ensure stable internet connection for BrowserStack sessions