

TaskManagement Fragment - Junit test code

```
@RunWith(RobolectricTestRunner.class)
@Config(manifest = Config.NONE)
public class TaskManagementFragmentTest {

    private TaskManagementFragment fragment;
    private FragmentScenario<TaskManagementFragment> scenario;

    @Before
    public void setUp() {
        scenario =
FragmentScenario.launchInContainer(TaskManagementFragment.class);
        scenario.onFragment(f -> fragment = f);
    }

    @Test
    public void testFragmentNotNull() {
        assertNotNull(fragment);
    }

    @Test
    public void testRecyclerViewSetup() {
        scenario.onFragment(fragment -> {
            RecyclerView recyclerView =
fragment.requireView().findViewById(R.id.taskRecyclerView);
            assertNotNull(recyclerView);
            assertNotNull(recyclerView.getAdapter());
        });
    }

    @After
    public void tearDown() {
        scenario.close();
    }
}
```

Achievements - Junit test code

```
@RunWith(RobolectricTestRunner.class)
@Config(manifest = Config.NONE)
public class AchievementsFragmentTest {

    private AchievementsFragment fragment;
    private FragmentScenario<AchievementsFragment> scenario;

    @Before
    public void setUp() {
        scenario = FragmentScenario.launchInContainer(AchievementsFragment.class);
        scenario.onFragment(f -> fragment = f);
    }

    @Test
    public void testFragmentNotNull() {
        assertNotNull(fragment);
    }

    @Test
    public void testAchievementListLoad() {
        scenario.onFragment(fragment -> {
            RecyclerView recyclerView =
fragment.requireView().findViewById(R.id.achievementsRecyclerView);
            assertNotNull(recyclerView);
            assertNotNull(recyclerView.getAdapter());
        });
    }

    @After
    public void tearDown() {
        scenario.close();
    }
}
```

Profile Fragment - JUnit Test

```
@RunWith(RobolectricTestRunner.class)
@Config(manifest = Config.NONE)
public class ProfileFragmentTest {

    private ProfileFragment fragment;
    private FragmentScenario<ProfileFragment> scenario;

    @Before
    public void setUp() {
        scenario = FragmentScenario.launchInContainer(ProfileFragment.class);
        scenario.onFragment(f -> fragment = f);
    }

    @Test
    public void testFragmentNotNull() {
        assertNotNull(fragment);
    }

    @Test
    public void testProfileDetailsDisplayed() {
        scenario.onFragment(fragment -> {
            TextView nameTextView =
fragment.requireView().findViewById(R.id.profileName);
            TextView rollNumberTextView =
fragment.requireView().findViewById(R.id.profileRollNumber);
            assertNotNull(nameTextView);
            assertNotNull(rollNumberTextView);
        });
    }

    @After
    public void tearDown() {
        scenario.close();
    }
}
```

}