

Brief description of classes implemented:-

Activities

1. StartActivity: Launcher Activity that displays the Splash Screen.

2. MainActivity:

First activity that displays following options.

- a. My Projects
- b. Templates(Feature Not Implemented Yet)
- c. Calibrate(Feature Not Implemented Yet)

3. ProjectListActivity:

This activity displays list of the projects. The projects are displayed using card view.

PATH = MainActivity (My Projects) -> ProjectListActivity.

4. ImageListActivity:

This activity displays list of Images that are used of measurement. The images can be added by selecting option (Gallery/Camera) from the menu.

Selecting “Add Image from Gallery” option will open file explorer to select image.

Selecting “Add image form Camera” option will open camera to capture image.

PATH = MainActivity (My Projects) -> ProjectListActivity (Project Card) -> ImageListActivity.

5. MeasureImageActivity:

This Activity displays the image on which the user will calculate Measurements.

This Activity has a save option and an Image Title (should be unique) input field.

PATH = MainActivity (My Projects) -> ProjectListActivity (Project Card) -> ImageListActivity (Gallery/Camera) -> MeasureImageActivity.

6. CalibrationActivity: Unimplemented

7. TemplatesActivity: Unimplemented

Helper Classes

1. **DatabaseHelper:** This is a helper class used to interact with database.
2. **ImageAdapter:** This class is used to create the new card to display list of images in ImageListActivity.
3. **ProjectAdapter:** This class is used to create the new card to display list of projects in ProjectListActivity.
4. **Image:** This class is used as a container to store the retrieved information from the database to be populated into the image cards on runtime.
5. **Project:** This class is used as a container to store the retrieved information from the database to be populated into the project cards on runtime.
6. **NewProjectDialog:** This class is used to display the dialog box which appears on clicking add fab button in ProjectListActivity to add new project.
7. **Processing:** This class implements the helper methods for processing of images.