

## **Project Iron - CRC and Software Architecture diagram**

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## Section 1 - Crc cards

CRC cards

Class WorkoutActivity

Parent Class: AppCompatActivity

Responsibilities:

- GetDataView() show exercises from sqlite databases
- addExercise() listener and action for adding an exercise
- notifyDataSetChanged() notify adapter to update view

Collaborators:

- WorkoutAdapter
- Exercise POJO

Class WorkoutAdapter:

Parent Class: RecyclerView.Adapter<ExerciseViewHolder>

Responsibilities:

- update() update view of WorkoutActivity

Collaborators:

- ExerciseViewHolder
- Exercise POJO

Class ExerciseViewHolder:

Parent Class: RecyclerView.ViewHolder

Responsibilities:

- create() create a container of the card view for WorkoutAdapter to display

Class Exercise:

Responsibilities:

- POJO for persisting in SQLite

Class WorkoutsActivity:

Parent Class: AppCompatActivity

Responsibilities:

- onCreate() set up view and listener for Floating Action Button (fab)
- addWorkout() produce dialog box for adding a workout, add actionlisten to dialogs confirmation button
- createWorkoutCardView() on confirmation click, adds a cardview of the workout to the workouts page, creates workout object

Collaborators:

- Workouts POJO
- Workout POJO

Class Workouts:

Responsibilities:

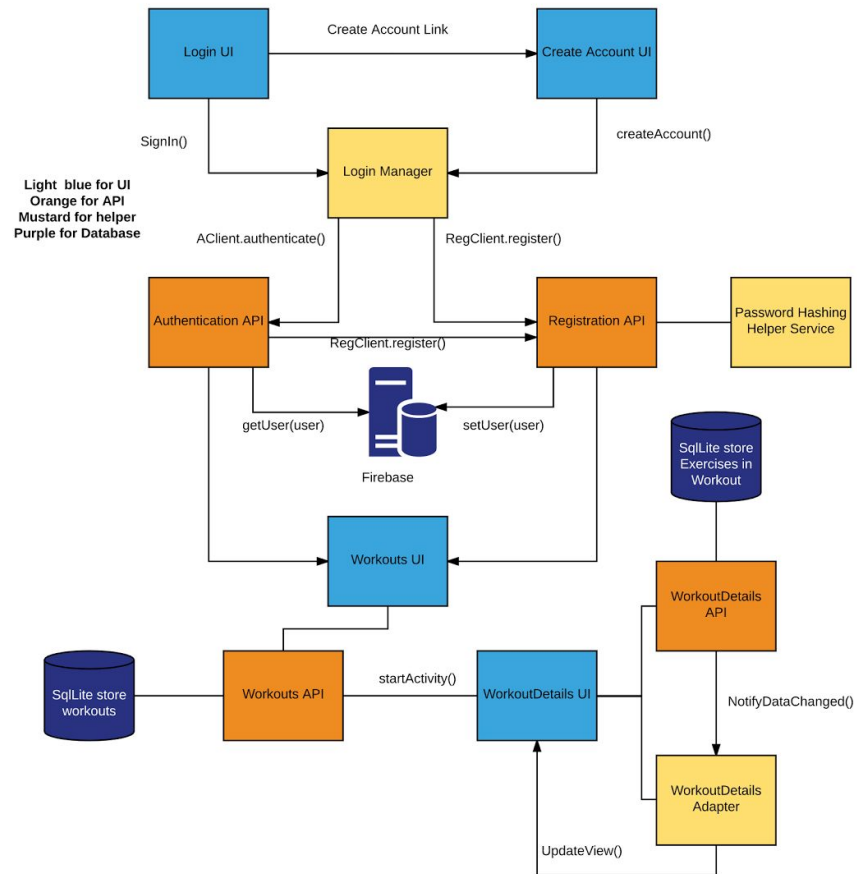
- POJO for list of workouts, used for view

Class Workout:

Responsibilities:

- POJO for persisiting a workout in SQLite
- Holding list of Exercises

## Section 2 : Systems Architecture design



### Section 3: System Design explanation

Workout Detail UI: shows the list of exercises for that workout, has an action button to add an exercise

WorkoutDetailsAPI:

- has onclick listener for action button
- Displays dialog box for adding an exercise
- Notifies the WorkoutDetailsAdapter to change the view
- Saves / updates workout in local database

WorkoutDetailsAdapter:

- updates the WorkoutDetails UI with more exercises upon statechange from WorkoutDetailsAPI

Workouts UI and Workouts API: behave in similar manner to above but for workouts with NO exercises.