

Mobile Application Programming: HW3

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Note: I may have removed some default methods provided in initial template, but I have written my own versions of these functions.

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Classes Added

The following classes were added and altered in this version of the HW

Activities:

- CreateTripActivity – It is now a blank activity which supports Fragments. It does not much content itself, but loads fragments into itself (in a Scrollable View).
- MainActivity – The explicit intent call to Create Trip is not changes to StartActivity from StartActivityForResult as now we save the trip to DB instead of passing it back to MainActivity
- ViewTripActivity – Now supports better UI. Linear Layout. Also supports Fragments.
- ViewTripHistoryActivity – Uses ListView with SimpleCursorAdapter to auto-populate Trip records

Fragments:

- EditTripFragment – Handles creation and user input of Trip data, not person data (used in CreateTripActivity)
- ShowPersonFragment – Handles adding of Contacts to Trip (used in ViewTripActivity and CreateTripActivity)
- ViewTripFragment – Shows Trip data in a read-only format (used in ViewTripActivity)

Database Helpers:

- TripDataBaseHelper – Handles database operations including creating, upgrading DB, insert and query operations.

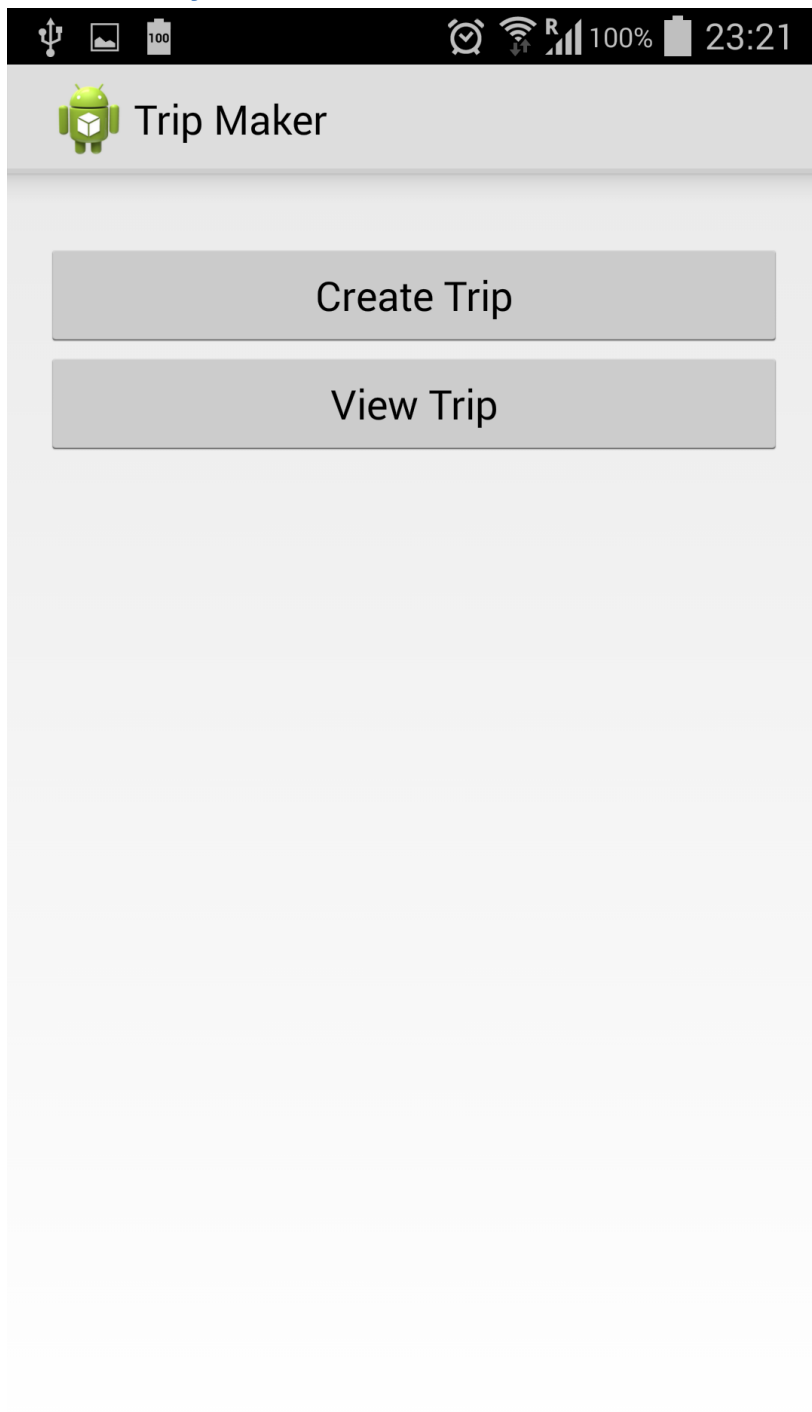
Functionalities:

The following functionalities were added

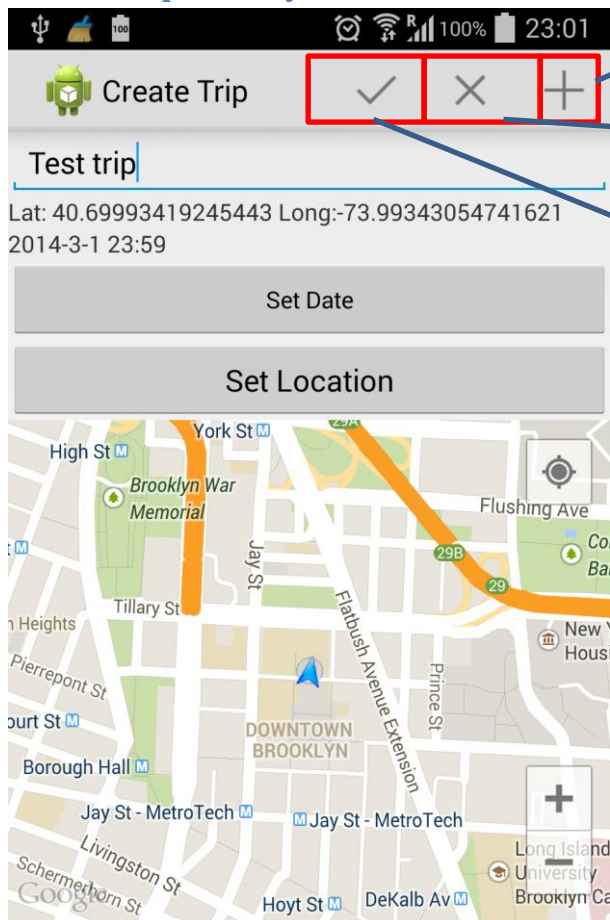
- Application supports DB, and saves trip and Person data to SQLITE DB
- CreateTripActivity uses android recommended UI design guidelines and supports ActionBar for operations (Add contact, Save Trip, Cancel Trip)
- TripHistoryActivity is added
- UI for ViewTripActivity is improved
- Duplicate contacts are not allowed
- To create Trip, Name, Location, date-time and at-least 1 contact must be provided
- Helpful messages like activity saved, and error messages added to guide the user

Screenshots:

MainActivity



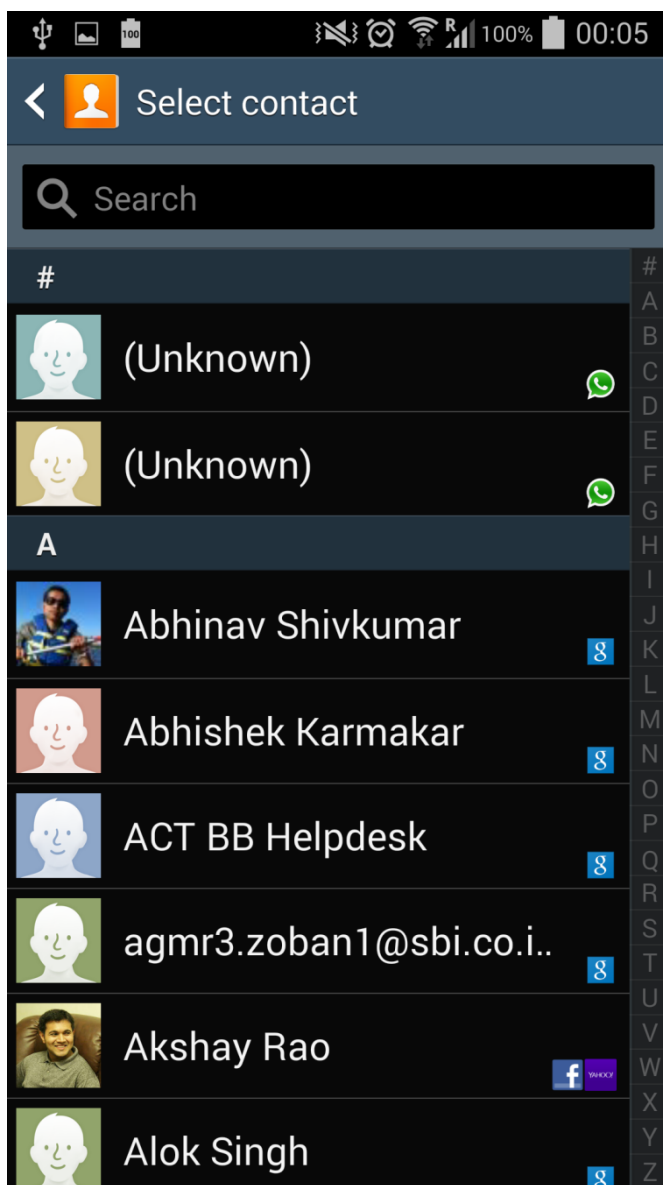
CreateTripActivity



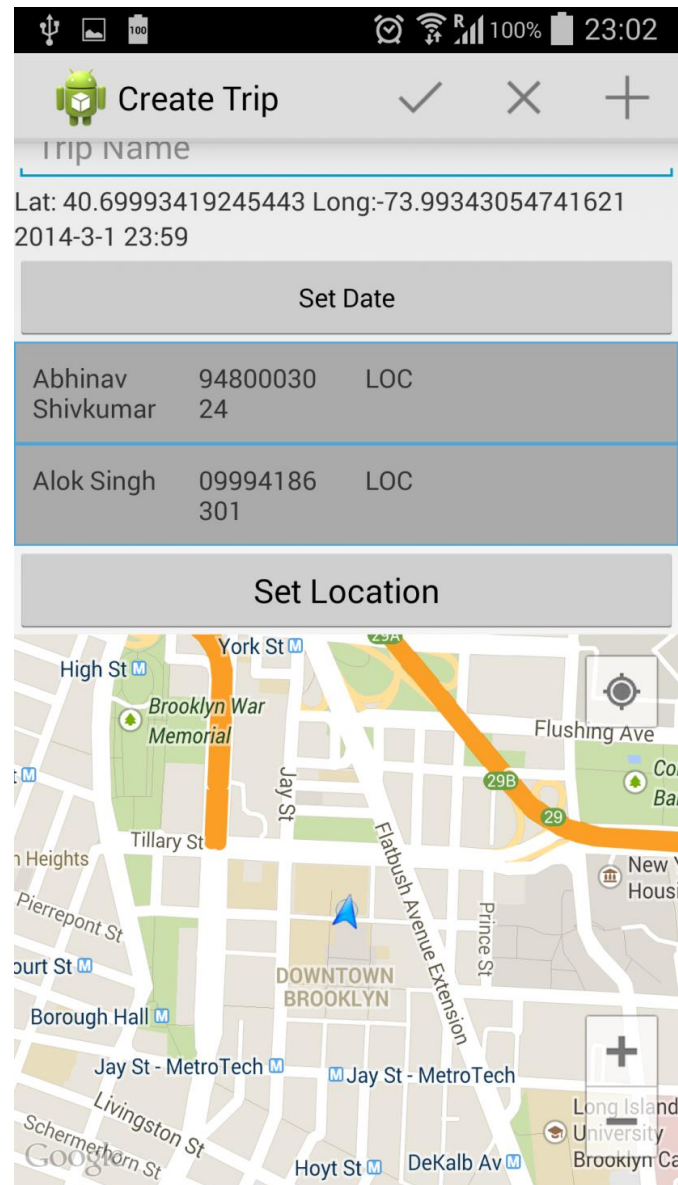
Add Contact

Cancel Trip

Save Trip




Contact Picker for CreateTripActivity



After Picking contacts

ViewTripHistoryActivity

 Saving screenshot...



View trip History

1 Trip1

2 Test trip

3 Test trip

4 Test trip

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ViewTripActivity

