Mobile Application Development

Assignment #2
Databases and Location Services
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Database

The database is created with SQLite and a SQLite helper class. In the helper class, the table "Locations" is created with 4 columns. The columns are ID, ADDRESS, LATITUDE and LONGITUDE. The ID column is used to identify where the row is located in the table and the rest of the columns contain information about the location they are describing.

In the SQLite helper class there are also three methods that are used to add, delete and update a location. The addLoc() method is used to add a new location into the database. It passes the address, latitude and longitude. The deleteLoc() method deletes a location from the database by removing all the information in the specified row of the table. Finally, the updateLoc() method edits the information in a given row.

Search Function

The search function works by searching the table in the database with a given address. If the address is found in the table it will return the corresponding latitude and longitude. If the address is not found in the table it will return a toast that says it does not exist.

Add, Delete and Update

The Edit button on the main screen leads to a new page that allows the user to add a new location to the table and delete or update an existing address.