P3\_DOC - Team Musa - CE/CS/SE 3354.003

1. Design Pattern used with corresponding code
   1. Template Pattern
      1. Abstract Class: Contact.java
      2. Concrete Classes: ContactFragment.java, AddContactFragment.java, ViewContactFragment.java, EditContactFragment.java
2. Location of 5 test classes with 5 non-trivial methods
   1. AJ Shah
      1. “DatabaseHelperTest.java” file
   2. Milan Gulati
      1. “ContactTest.java” file
   3. Jonathan Snead
      1. “EditContactTest.java” file
   4. Angad Saluja
      1. “toStringContactTest.java” file
   5. Pedro Garcia
3. Instructions to build and use the software with implemented functions
   1. To build the software
      1. Download from the GitHub page
      2. Open Android Studio
      3. Choose the option to open a project
      4. Go to the project folder in Downloads
      5. Click on the “Contact Manager” folder
      6. Choose the “ContactManager” folder to open in Android Studio
      7. It will automatically build, so wait for it to complete
      8. Press the run button in the top bar to start the build/run
      9. Will open in an emulator
   2. To add a new contact
      1. Press the add button in the bottom right of the main screen
      2. Fill out all of the information
      3. Press the check icon in the top bar
   3. To view a contact
      1. Press the contact you want to view
      2. View the information
      3. Press the back arrow in the top bar to go back
   4. To remove a contact
      1. Press the contact you want to remove
      2. Press the three dots in the top bar
      3. Press the “Delete Contact” button
   5. To edit a contact
      1. Press the contact you want to edit
      2. Press the pencil button in the top bar
      3. Edit the information
      4. Press the check icon in the top bar
      5. A message will appear at the bottom of the screen
      6. Press the back arrow to view changes to contact
      7. Press the back arrow to go back to main
   6. To add a phone number to an existing contact
      1. Press the contact you want to edit
      2. Press the pencil button in the top bar
      3. Add the phone number
      4. Press the check icon in the top bar
      5. A message will appear at the bottom of the screen
      6. Press the back arrow to view changes to contact
      7. Press the back arrow to go back to main
   7. To add an email to an existing contact
      1. Press the contact you want to edit
      2. Press the pencil button in the top bar
      3. Add the email
      4. Press the check icon in the top bar
      5. A message will appear at the bottom of the screen
      6. Press the back arrow to view changes to contact
      7. Press the back arrow to go back to main
   8. To add a photo to an existing contact
      1. Press the contact you want to edit
      2. Press the pencil button in the top bar
      3. Add the photo
      4. Press the check icon in the top bar
      5. A message will appear at the bottom of the screen
      6. Press the back arrow to view changes to contact
      7. Press the back arrow to go back to main
   9. To search for a contact
      1. Press the icon in the top right of the main screen
      2. Enter a contact name
   10. Send an SMS message through contact manager
       1. Press the contact you want to send a message to
       2. Press the icon to the right of their number
       3. You will be redirected to the message app
   11. Make a phone call through contact manager
       1. Press the contact you want to call
       2. Press the icon to the left of their number
       3. You will be redirected to the phone app
   12. Save the state of the contacts
       1. Press the home button or switch to another app
       2. The contacts are saved upon exiting of the app
       3. Also are saved if the app is quit out
   13. Load the state of the contacts
       1. Launch the app
       2. The contacts are loaded upon opening the app
   14. Scroll when necessary
       1. Use your scroll wheel, finger, or the bar on the right to scroll