Instruction to execute our project

Step1.
Please unzip two files. The zip file named useraccount.zip is our server, which will runs on Eclipse. The zip file named Restaurant-Finder.zip is our client, which will run on Android Studio. Restaurant-Finder1 is suitable for both Tablet Nexus7 and Phone Nexus4.

Step2.
Please open the client project using Android Studio and the server project using Eclipse. Then, please check your IP address and type it into the field named TESTIP in RemoteServerProxy.java in the ws.remote package in the client project in Android Studio. The current TESTIP field is "10.0.0.7", and you need to replace it with your IP address.

Step3.
Since we use our personal computer as server, we need to save all text information in database and save images in folders named sample and photos on Desktop. Please change the field named DIRECTIORY in MyServer class in com.prgguru.jersey package in useraccount project in Eclipse to the path that you want to save folders. Then, please put sample folder that contains all restaurants' images and put photos folder that contains some testing photos into the path.

Step4.
Please run useraccount project in Eclipse and select Run on Server, and run ServerUploadPhoto.java in socketServer package in useraccount project and select Java Application. Then, please run client project in Android Studio. Please use suitable devices for testing the two resolutions. After running the client project, administrator information of our app will be initialized.

Step5.
When you go into the first page of our app -- Login page, please click Administrator in an action bar at the top right corner of our app and input administrator's information. The username is peter and the password is peter. Then, please click Post Restaurant button to post all available restaurants and other relative informaiton of our app into database. Please remember that you just need to do this step at one time. Our server will save restaurants information for future usage.

Step6.
After the initialization, please click New User to register as a new user. You may input name and age, which are optional, and username and password, which are required. After input, you can click Register button to register, or you can click physical back button to give up registration. Then, you will be back to login page. You can input the new registered user's information and click login button to go to User Host. However, in order to make testing more convenient and comprehensive, we create a sample user with some testing data. Please go back to login page again and use our sample user's information to login: input 123 for username and input 123 for password.

Step7.

When you go to User Host page, you can see four tabs and our app will goes to find restaurant tab at first. First, please input a restaurant name. The text you input in User Host is case insensitive. You can choose one of the following name: Skibo Coffee House, El Gallo de Oro, Tartans Pavilion, Orient Express, Yuva India Restaurant. Both full name or part of name can be accepted. You will see a restaurant showing below based on your input after click Find restaurant by name button. Second, please input a restaurant address. You can choose one of the following address: 5000 Forbes Avenue, Pittsburgh, PA 15213 / 5001 Forbes Avenue, Pittsburgh, PA 15213 / 5002 Forbes Avenue, Pittsburgh, PA 15213 / 4609 Forbes Avenue, Pittsburgh, PA 15213 / 412 South Craig Street, Pittsburgh, PA 15213. Both full address or partial address can be accepted. If you just type 500, all restaurants whose addresses contain 500 will be showed. Third, please input a cuisine. You can choose one of the following cuisines: Cafe, Chinese, India. Please input a full cuisine name although you may ignore case sensitivity. All restaurants that match the cuisine you input will be showed. If you input nothing, a toast will jump out showing Null input. If there is no restaurant found based on your input, a toast will jump out showing No result. Finally, when you see a list of restaurants showing out, you can click one of them to go to its Restaurant Host page. Alternatively, you can shake the device. Our app will randomly choose a restaurant in the list and show a toast.

Step8.

If you go to a Restaurant Host page after step7, please click an action bar in the top right corner of the screen and select Back to go back to User Host page. Then, please click My Location tab in User Host. If you test with a real device, you will see a marker showing in a google map, which is your current location. You can click the mark title to see longitude, latitude and text address. Since our app just save information of restaurants near CMU in Pittsburgh, it may not show nearby restaurants based on your location. Thus, to test searching nearby restaurants function, please change the longitude and latitude of your device to -79.9537 and 40.4507, which is close to the location of CMU. In this way, you will see some restaurants showing on the map with a flag marker. If you click the flag marker, you can see some basic information of the restaurant. If you click the title of the marker, you can go to the restaurant host page.

Step9.

Please click My Favorite List tab in User Host, you will see a list of restaurants that are saved by us in advance. You can delete any of them by sliding the item in the list and you will see a toast jump out reminding that the restaurant has been deleted from favorite list. Alternatively, you can click one of them and then you will go to the restaurant host page.

Step10.

Please go back to User Host page by clicking Back in the action bar in the Restaurant Host. Please click Photo Wall tab in User Host. Then, you will see a gridview showing all photos taken by users. You can click one of them, and the photo will fill out the screen. Then, you can slide the screen towards the left to see the previous photo or towards the right to see the next photo. If you click the photo again, it will back to original size and the screen can show all photos again.

Step11.

Please go to Restaurant Host page using any method that is introduced before. When you go to Restaurant Host, you will see other users' comments at first. To see restaurant's detail information, please slide the screen upward. Then, you can click the phone number to make a call or click the website link that will navigate to the restaurant's offiical website. In addition, pleaes click the action bar at the top right corner of the screen and select Camera function. You will see a camera showing out. After taking a photo, our app will automatically save it on the server. To see the photo, you can select Back in the action bar and click Photos Wall tab in User Host page. Then, please click the action bar and select Add Comment. You can type one to ten lines of text and click Submit button. Then, you will see your comment and your username showing on the list of comments. Finally, please click action bar and select Add to Favorite List. If the restaurant is not in your favorite list, it will be added and a toast will jump out to notify you.