RAD Grupp 10 - TDA367

1. Introduction

The project is a smartphone application, below follows a brief overview of the project.

1.1 Purpose of application

Our application serves to help regular people with ordinary tasks and at the same time give working opportunities to people searching for an extra income. The application will connect those who are in need of domestic help and people interested in earning some extra money.

1.2 General characteristics of application

The application will be an android smartphone application which is available for multiple mobile devices. The application will connect different applicants in our network over the internet.

In the application you will be able to both view and browse through different users posts, either through a list or a map. The items will mainly be sorted by the position closest to your choise. Communication between the two parties will not happen through the application, but between mail or phone.

1.3 Scope of application

The application will require an internet connection. It supports the mobile device GPS and maps to make it easier for the user to locate jobs. Employers will have to make an account. People searching for jobs doesn't need an account.

1.4 Objectives and success criteria of the project

It should be possible for the person searching for a job and an employer to get in contact with each other. The searcher will see jobs available near his location. Every user will be able to make an account and make a post as an employer.

1.5 Definitions, acronyms and abbreviations

- GUI, Graphical User Interface
- Device, the smartphone running the program
- Employer, the person who is in need of domestic help
- Searcher, the person who is willing to help with domestic chores.
- GPS (Global Positioning System), tracking your position.

2 Requirements

2.1 Functional requirements

The user(s) should be able to;
1. Start the application.
2. Create an account
3. Login to an existing account
4. Remove an existing account
5. Get a new password if he has forgot his present password
6. Change to a new password
7. Add contact information to an account
8. Modify his account information
9. Create an ad for what type of chore the user needs help with
10. Chose the location for where the job is supposed to take place
11. Specify what he is willing to pay for the service
12. See his old posts in the application
13. Remove a posted ad
14. Modify an already posted ad with new information
15. Have a post shown on a map with other ads
16. Have a post shown in a list with other ads
17. Have a post shown in a list sorted in distance from the person using the application
18. View other peoples profiles
19. Browse other peoples ads
20. View other peoples ads
21. Search for a person(profile)
22. Search for a job title
23. Search for a job location
24. Filter the search for location by area distance
25. Filter the browsing by type of job
26. Filter the browsing by distance

2.2 Non-functional requirements

2.2.1 Usability

The average smartphone user will be able to use our applicaton without hesitation since it's going to look like other applications. The application will be in Swedish and English. The application should be very easy to use and go fast to browse. It should also be easy to see new jobs.

2.2.2 Reliability

A users login-information should be kept private.
The application should not crash

2.2.3 Performance

Any actions initiated by a user should not exceed a 2 seconds response time in worst case.
Exceptions can be made when loading of large results occur.

2.2.4 Supportability

The application must be implemented so that the GUI fits for all android devices.

2.2.5 Implementation

The application will be available for devices using android.

2.2.6 Packaging and installation

NA

2.2.7 Legal

There are legal issues due to jobs being offered without an organisation or corporation which mean that jobs without paying taxes might be offered.

2.3 Application models

2.3.1 Use case model

See APPENDIX for UML diagram and textual descriptions

2.3.2 Use cases priority
1. Post ad
2. Browse ads
3. Create account
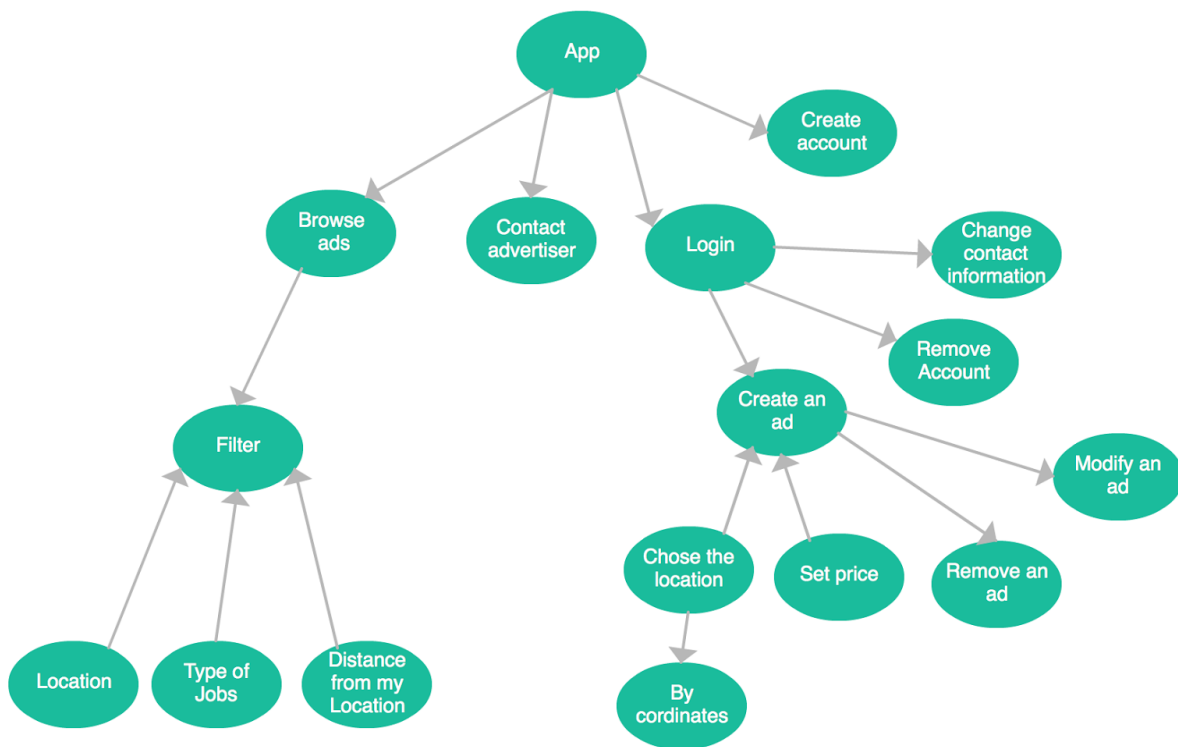4. Contact advertiser

2.3.3 Analysis model
See Appendix

2.3.4 User interface

The application will use a fixed (non skinable, non themeable) GUI following standard conventions. The GUI will take into account different screen sizes since most devices using android have different screen sizes. See Appendix for preliminary GUI.

APPENDIX

Use cases

Use Case texts

Post ad

Summary: This is how the user posts ad to the application.

Priority: high

Extends: -

Participators: User

Normal flow of events

	Actor	System
1	Clicks create new ad button	
2		"Create ad" view opens
3		Auto generates information from profile page as good defaults
4	Fills in all the textfields necessary to continue	Checks if textfields are filled in correctly.and shows with a green checkmark that the textfield is ok
5		Continue button is enabled
6	Presses the continue button	
7		"your ad has been posted" view opens for a few seconds
8		Submit users ad to a list of other ads
9		List view with most recent ads opens

Alternative flows

Flow 4.1 The textfields are not filled in correctly

	Actor	System
4.1		A red mark will be shown next to the inputfield the user filled in incorrectly, aswell as an input hint
5.1		Continue button is disabled
5.2		loops to 4.1 until textfields have gotten correct input

Flow 7.1 actor presses the "post has been posted" picture

	Actor	System
7.1	presses the picture	skips the timer and jumps straight to step 8

Create account

Summary: This is how the user creates an account
Priority: medium
Extends: -
Participators: User

Normal flow of events

	Actor	System
1	Clicks create new account button	
2		"Create account" view opens
3	Fills in all the textfields necessary to continue	Checks if textfields are filled in correctly and shows with a green checkmark that the textfield is ok
4		"Create account" button is enabled
5	Presses the "create account" button	
6		"You've succefully created an account" view will show.
7		Overview of the users profile is shown

Alternative flows

Flow 3.1 The textfields are not filled in correctly

	Actor	System
3.1		A red mark will be shown next to the inputfield the user filled in incorrectly, aswell as an input hint
4.1		"Create account" button is disabled

4.2		loops to 3.1 until textfields have gotten correct input

Browse ads

Summary: This is how the user browses ads in the application.

Priority: high

Extends:-

Participators: User

Normal flow of events

	Actor	System
1	Clicks "browse ads" button	
2		A news feed with ads will show up
3	scrolls down the list	loads more ads into the news feed and displays them

Alternate flows

Flow 3.1: User clicks on a job ad to further investigate.

	Actor	System
3.1.1	clicks on an ad	
3.1.2		show a detailed view of the job ad

Flow 3.1.2.1: User's done with the job ad and goes back to initial browse.

	Actor	System
3.1.2.1	clicks on "back" button	
3.1.2.2		goes back to the newsfeed

Flow 3.2: User changes to map view

	Actor	System
3.2.1	Clicks on the "show map view" button	
3.2.2		Displays a view of google maps focused on your corruent location and shows pins where different jobs are available.
3.2.3	User clicks on a pin	
3.2.4		A short description pop-ups with information about the job.
3.2.5	User clicks on "more information"	
3.2.6		Use case 3.1

Contact advertiser

Summary: This is how the user contacts an advertiser

Priority: low

Extends:-

Participators: User

Normal flow of events

	Actor	System
1	Clicks on an ad	
2		Displays a window with a detailed view of the ad
3	The user clicks on "call advertiser" button	
4		Switches to the users phone application which starts to call the advertiser

Alternative flows

Flow 3.1 The user clicks "send message" button

	Actor	System
3.1.1	The user clicks on "send message" button	
3.1.2		The messageview is shown where you can fill in a message
3.1.3	User writes message and clicks send	
4.1		The advertiser gets an e-mail from the user

Analysis Model