

# Gratelancer

Group 8

Nov 6, 2018

## Abstract

This file is the second milestone report about Group 8's Project for CmpE 451 class. Information in this file is up to second customer milestone of the project.

## 1 Executive Summary

### 1.1 Summary of the Project Status

#### **Project Introduction**

The project is a freelancing platform that will be implemented on both Web and Android with necessary API implementation and the main objective of this project is providing an environment for clients and freelancers to collaborate in a single platform. The clients may create their projects and jobs about programming, writing, design, development etc. and post the details on this platform to find an expert on such topics.

After facing with some issues at the first milestone, we took some actions. One of our backend member transferred to the frontend team. We changed frontend framework from material-ui to react-bootstrap.

#### **Frontend**

- **Home Page:** We implemented home page, which shows available projects. For clients and freelancers projects can be seen with all features like project owner, description, min-max bid amount etc. For guest users projects are also can be seen however they can not see the owner of the project, it requires a sign-in.

- **Project Creation:** We implemented project creation. An authenticated user can create a project from home page.
- **Profile Page:** We implemented profile page for the authenticated users.
- **Logout:** We implemented logout for the authenticated users.

## **Android**

## **Backend**

- **Writing the “project” app:** We added project app so that we could do CRUD operations for Projects in our system.  
Our endpoints for “project” path are:
  - GET /projects/ : List all projects.
  - POST /projects/ : Create new project.
  - GET /projects/:id/ : Retrieve the project with the given id.
  - PUT /projects/:id/ : Update the project with the given id.
  - PATCH /projects/:id/ : Partial update the project with the given id.
  - DELETE /projects/:id/ : Delete the project with the given id.
  - GET /projects/search/:keyword/ : List all the projects that contain keyword in their title and/or description.

Our endpoints for “user” are:

- GET /users/ : List all users
- GET /users/:id/ : Retrieve the user with the given id.
- GET /users/self/ : Retrieve the user that owns the authentication token.
- PUT /users/self/ : Update the user that owns the authentication token.
- PATCH /users/self/ : Partial update the user that owns the authentication token.

## 1.2 Changes Planned

For the remaining part of the project we decided to use github issues part more regularly. It helps us to keep track of the project bugs and process. We also try to make better time management until the final milestone. We decided to be more clear and specific about the distribution of tasks.

## 2 List and Status of Deliverables

Because we had some unsuccessful deliverables for the first milestone, we showed their status too at below:

List Of Deliverables	Status
• Login (past deliverable)	Delivered
• Sign Up (past deliverable)	Delivered
• Profile Page (past deliverable)	Delivered
• Homepage (past deliverable)	Delivered
• Project Creation	Delivered
• Bidding Mechanism	Not Delivered
• Search Mechanism	Not Delivered
• Annotation Mechanism	Not Delivered

### 3 Evaluation of the Status of Deliverables

#### 3.1 Login

After first milestone we added login with verification.

#### 3.2 Sign-Up

After first milestone we added sign-up with verification.

#### 3.3 Profile Page

After first milestone we added profile page. Profile edit is not available right now. It can be added.

#### 3.4 Homepage

After first milestone we added homepage. It shows available projects at the backend successfully.

#### 3.5 Project Creation

We added project creation to the homepage. It is correctly working.

#### 3.6 Bidding Mechanism

We placed bidding mechanism at before the second milestone, however we can not make it until the milestone. We are working on it.

#### 3.7 Search Mechanism

We placed search mechanism at before the second milestone, however we can not make it until the milestone.

#### 3.8 Annotation

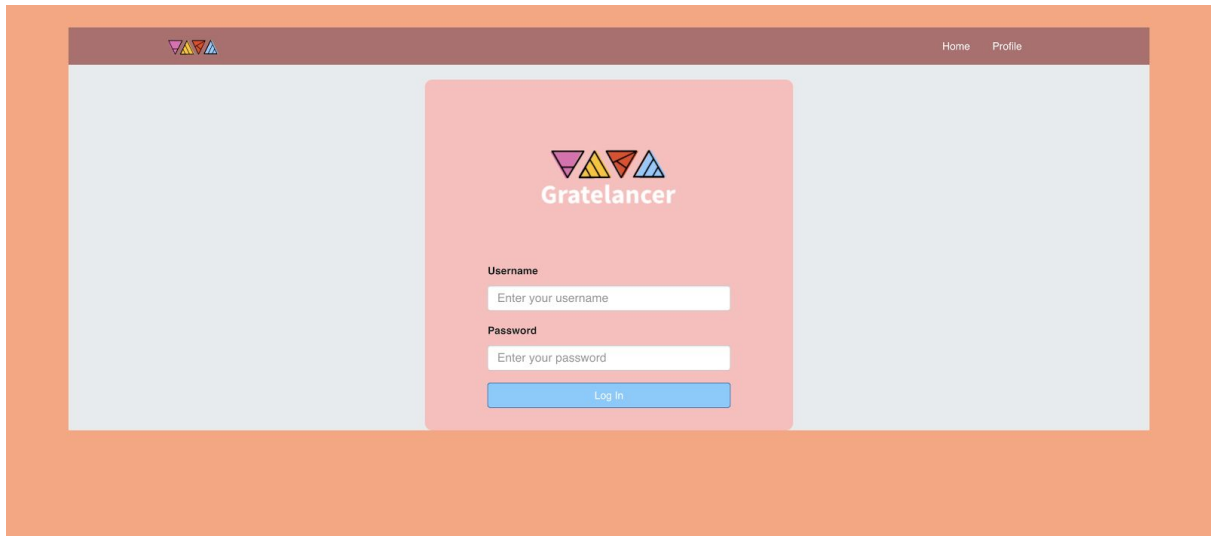
We placed annotation at before the second milestone, however we can not make it until the milestone.

## 4 Coding Work Done

Group Member	Work Done
Abdurrahim Eskin	For the frontend android side I have worked with my colleague about project creation system and also created the users and project scenarios.
Berkay Kozan	For android side, signup and login logic are fully completed and connected to the backend. Forget password feature has been added. I implemented logout, so that a logged in user can log out. Project creation page is created for logged in user. Search button is added to the project. The homepage is in progress, the code is not empty, however it is not completed.
Burak Tepedelen	
Kübra Eryılmaz	Added router for the frontend side of the project. Changed and fixed navigation bar component. Prepared boiler plate for the home page and profile page.
Mehmet Çalım	I added create a project button that redirects users to project creation page on homepage, implemented project creation page design and backend connection, retrieval of projects from backend side on homepage, implemented retrieval of client profiles by clicking their usernames on homepage, and solved authentication issues of all pages.
Ozan Kınasakal	For the backend, I wrote the models for “Project” and “Bid”. Also wrote the serializers, views and url paths for Project. For the frontend part, I changed the design using bootstrap row-columns for all pages. Added image templates to projects and the logo to the homepage and nav bar.
Semih Arı	worked on creating a home page and connect login button with home page, also created some client and freelancer scenerios for project.
Umut Barış Öztunç	I created endpoints to list all the users, retrieve specific users by their id, and retrieve-update authenticated user. I also created another endpoint for searching projects with a keyword. I have fixed some bugs in the project app in the backend and I helped both frontend and android to fix some issues.

# 5 Design

## 5.1.1 Login



The login form is centered on a light gray background within a larger orange frame. It features the Gratelancer logo at the top, followed by input fields for Username and Password, and a Log In button. The top navigation bar includes a logo and links to Home and Profile.

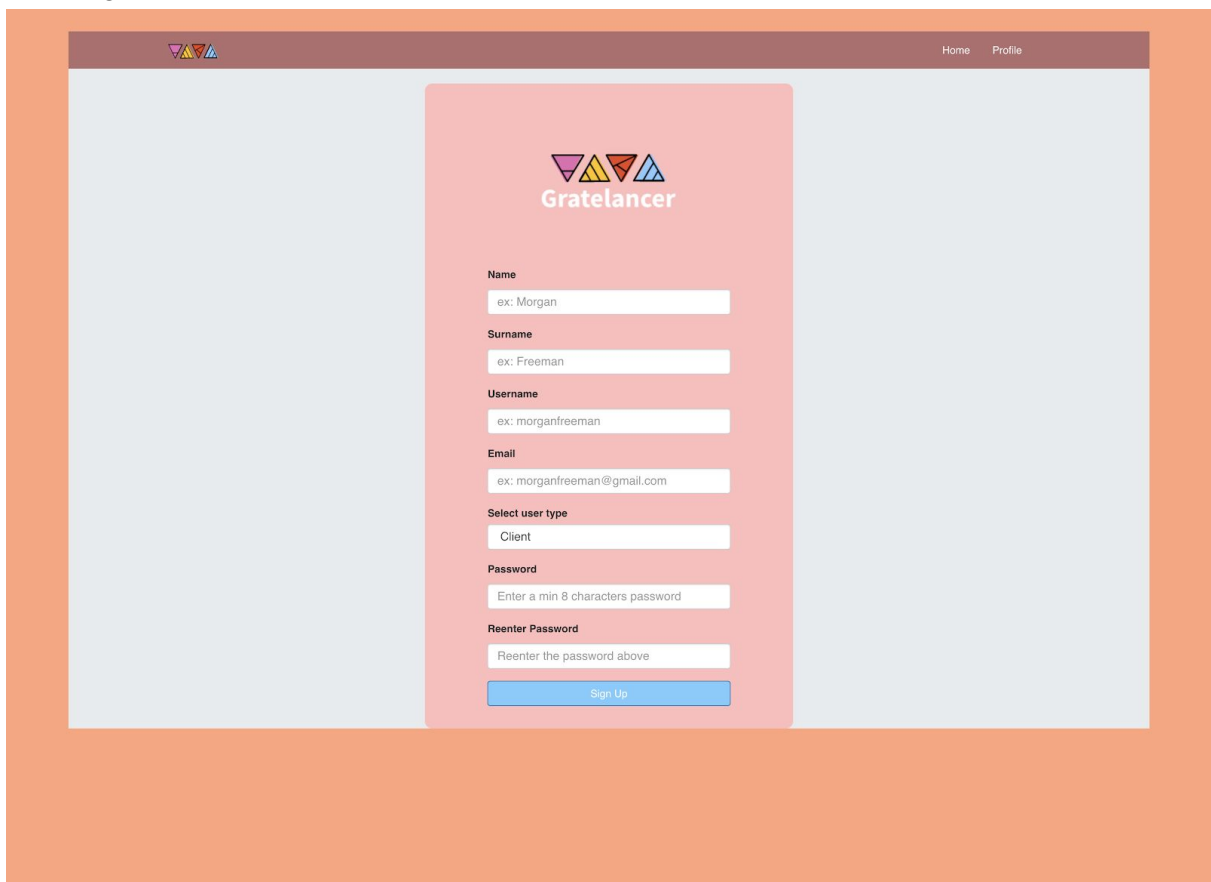
Gratelancer

**Username**  
Enter your username

**Password**  
Enter your password

Log In

## 5.1.2 Sign Up



The sign up form is centered on a light gray background within a larger orange frame. It features the Gratelancer logo at the top, followed by input fields for Name, Surname, Username, Email, Select user type, Password, and Reenter Password, and a Sign Up button. The top navigation bar includes a logo and links to Home and Profile.

Gratelancer

**Name**  
ex: Morgan

**Surname**  
ex: Freeman

**Username**  
ex: morganfreeman

**Email**  
ex: morganfreeman@gmail.com

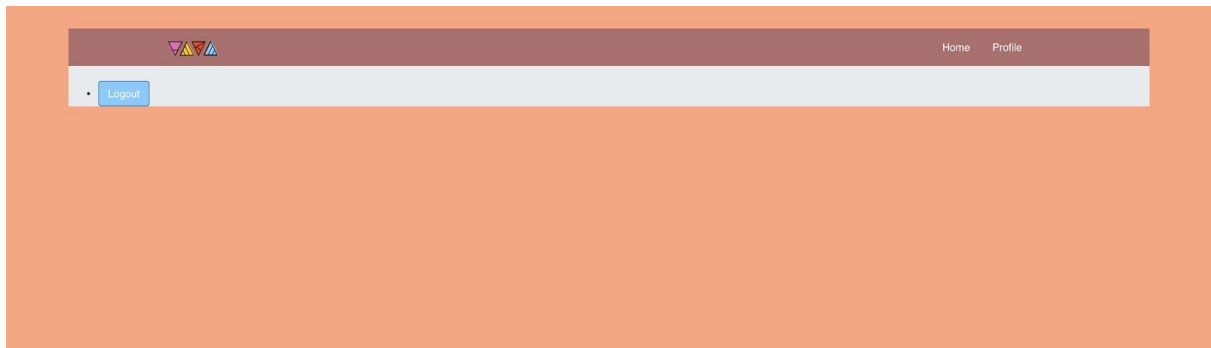
**Select user type**  
Client

**Password**  
Enter a min 8 characters password

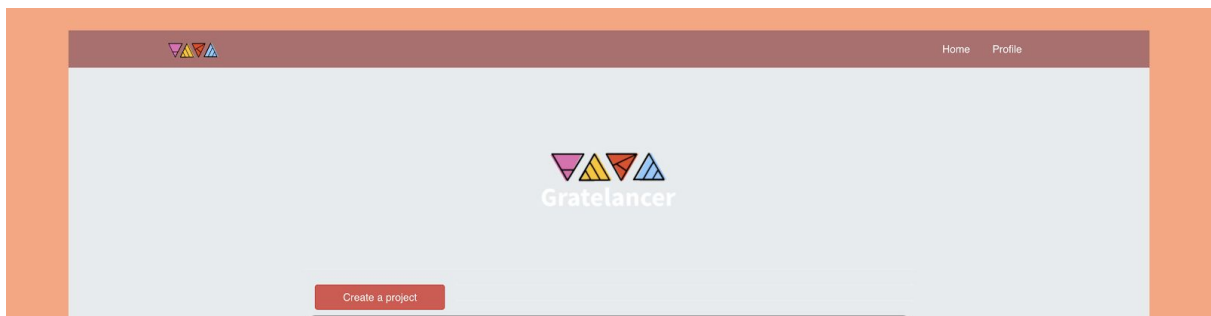
**Reenter Password**  
Reenter the password above

Sign Up

### 5.1.3 Logout



### 5.1.4 Homepage



#### UI/UX designer required for a small web app (website only)



##### Project's owner:

**Description:** Hi, Looking to hire a UI/UX designer for a small project. I'm looking to design a web app that will take users through multiple steps where they make selections and eventually be given a final result. Ideally, the candidate can speak Arabic, as the app will be in Arabic. I'm looking for a minimalist design. I'm mostly looking to build a prototype so I don't have assets/text for content. I would like to work with the designer until we reach a satisfactory result. Bonus if the designer can develop the app itself and is comfortable with building it in addition to a dashboard/back end Skills required Arabic, Graphic Design, HTML, User Interface / IA, Website Design

**Deadline:** 2019-01-01 00:00:00

**Price:** 300 - 1000 \$

**Status:** active

#### Build a sales website



##### Project's owner: mehmetcalm

**Description:** I have a dream of creating a website for hunters and outdoor people, where they can sell their used gear. The setup I have in mind is very much like Ebay or Amazon, just without the possibility of paying online. A simple aesthetic look, appealing to hunters, outdoors people alike. The user should be able to: 1. Create an account to login to, and administer their ads. 3. Create add with their used gear 2. Contact people if interested to buy Companies of interest should have the possibility of buying add space on the sides and in the top. I have attached a picture from a danish page called DBA.dk. I works as a selling platform, similar to what I have in mind. I have also attached a picture from Northernhunting.com, which visualizes the expression a want the website to have. I want it to be simple and user friendly, with the possibility of translating it into Danish.. I hope you can help my, and please dont hesitate to contact me if you have questions.. Kindest regards Rene Lausten Skills required eCommerce, Graphic Design, HTML, PHP, Website Design

**Deadline:** 2019-02-01 10:00:00

**Price:** 10000 - 15000 \$

**Status:** active

#### C Programming CODE - Need WALK THROUGH to put it all together



##### Project's owner: mehmetcalm

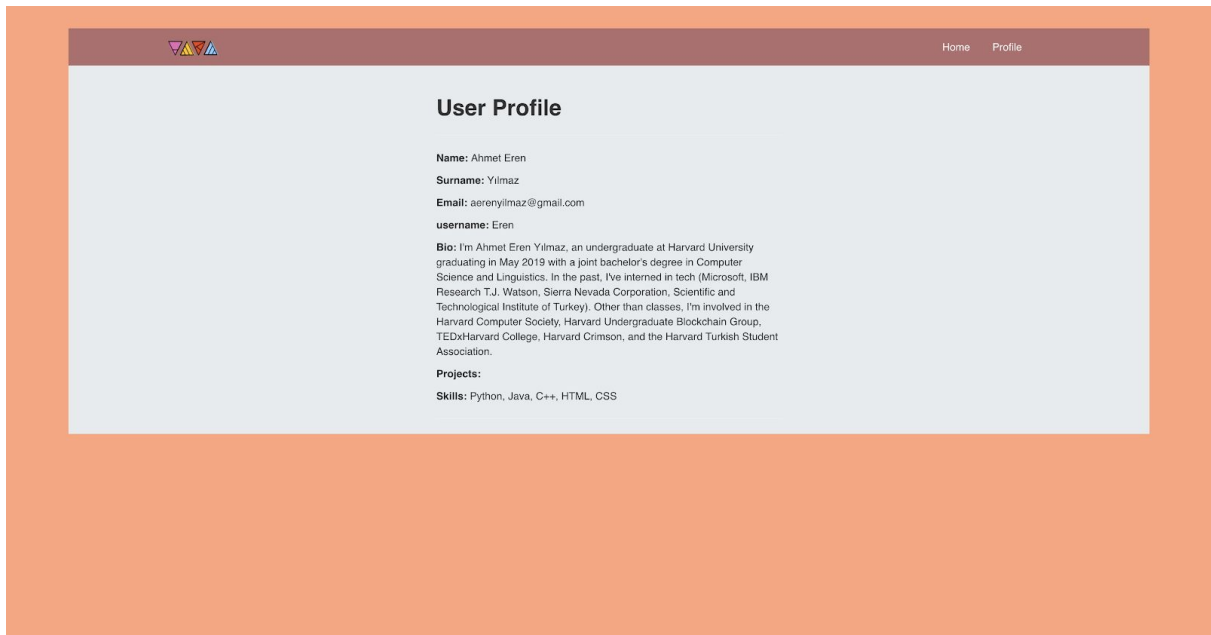
**Description:** Hi, I have two projects which needs your urgent expertise please. 1. Create data link layer in SWAP 2. Create FTA - file transfer application using SWAP I have all c programming code What I need is: 1. Someone to guide me, do remote assistance and show me how all the code fits together and works correctly with full explanations. 2. No coding to be done - as mentioned I have all code, just need a way to put it all together Linux = Ubuntu Thank you so much! Skills required C Programming, Linux, Software Architecture

**Deadline:** 2018-12-20 12:00:00

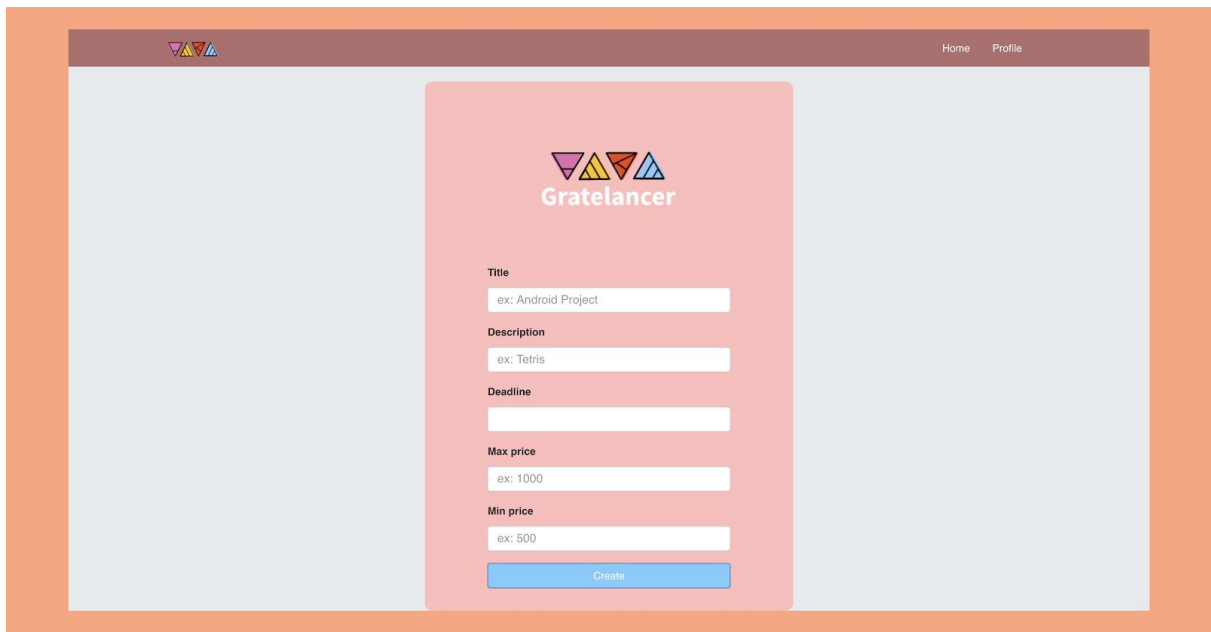
**Price:** 50 - 100 \$

**Status:** active

## 5.1.5 Profile Page

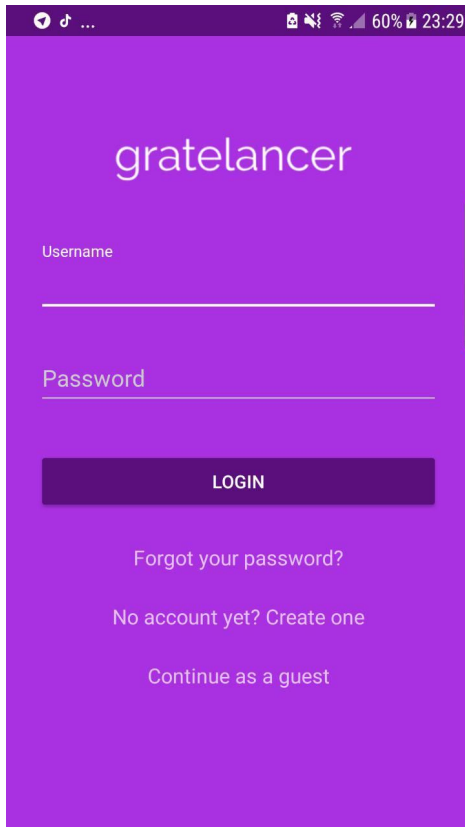


## 5.1.6 Project Creation





### 5.2.1 Login



A screenshot of a mobile application's login screen. The background is a solid dark blue. At the top, there is a status bar with various icons and the time 23:29. Below the status bar, the word "gratelancer" is displayed in a white, lowercase, sans-serif font. Underneath the app name, there are two white input fields: the first is labeled "Username" and the second is labeled "Password". Below these fields is a dark blue button with the word "LOGIN" in white, uppercase letters. Further down, there are three lines of white text: "Forgot your password?", "No account yet? Create one", and "Continue as a guest".

gratelancer

Username

Password

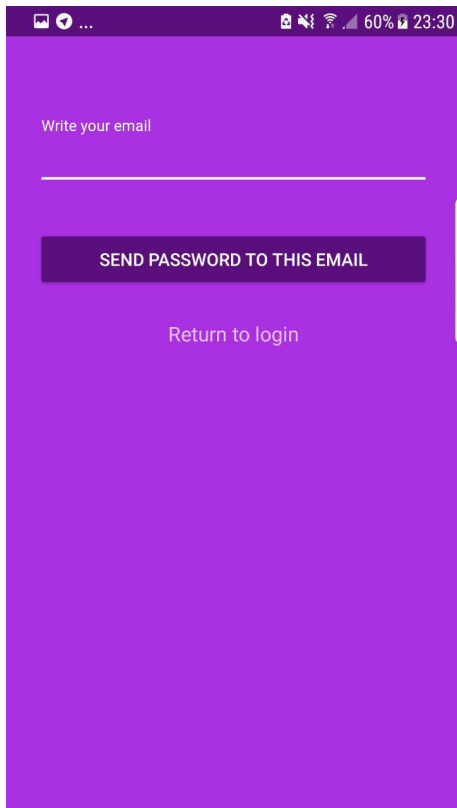
LOGIN

Forgot your password?

No account yet? Create one

Continue as a guest

### 5.2.2 Forgot Password



A screenshot of a mobile application's "Forgot Password" screen. The background is a solid dark blue. At the top, there is a status bar with various icons and the time 23:30. Below the status bar, the text "Forgot your password?" is displayed in a white, lowercase, sans-serif font. Underneath this text, there is a white input field with the placeholder text "Write your email". Below the input field is a dark blue button with the text "SEND PASSWORD TO THIS EMAIL" in white, uppercase letters. At the bottom of the screen, there is a white link that says "Return to login".

Forgot your password?

Write your email

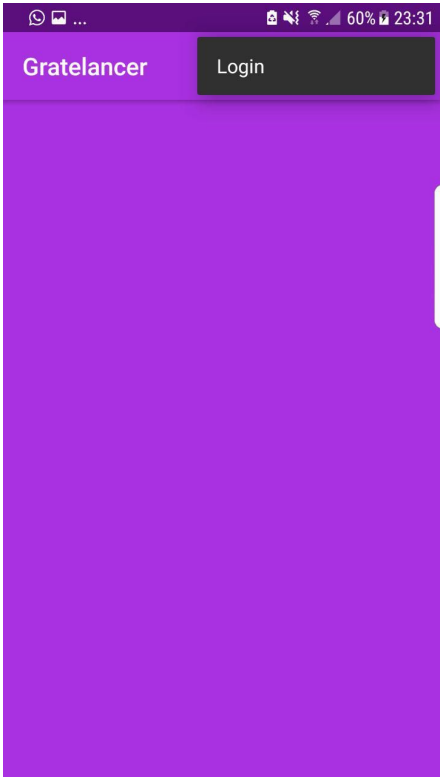
SEND PASSWORD TO THIS EMAIL

Return to login

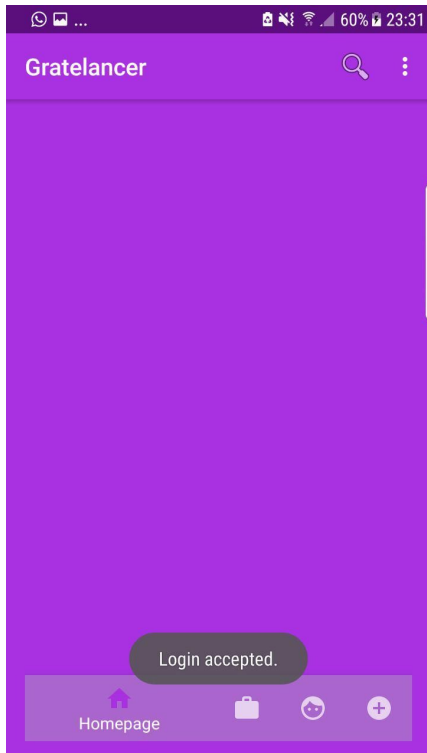
5.2.3 SignUp

The screenshot shows the 'gratelancer' app's sign-up screen. It features a white background with a dark blue header bar containing the app's logo. Below the header, there are seven input fields: 'User name', 'Email', 'Password', 'Re-enter Password', 'First name', and 'Last name'. Each field has a light blue border and a small blue icon on the right. Below these fields is a 'Client' dropdown menu with a blue arrow. At the bottom, there is a dark blue button labeled 'CREATE ACCOUNT'.

5.2.4 Homepage for guest user



### 5.2.5 Homepage for logged in user



### 5.2.6 Project Creation

The screenshot shows the "Project Creation" form in the Gratelancer app. The form is a white card with a rounded top, set against a dark blue background. It contains five text input fields with labels: "Project title", "Project description", "Deadline", "Minimum Price", and "Maximum Price". Below the input fields are two buttons: a red button labeled "CREATE PROJECT" and a dark blue button labeled "CANCEL". The status bar at the top shows the same system status as the previous screenshot.

## 6 Project Plan

		Ad	Süre	Başlat	Bitirme	Önceki	Kaynak Adları
1		Requirements Review	15 günler?	24.09.2018 08:00	08.10.2018 17:00		
2		Reviewing Requirements	15 günler?	24.09.2018 08:00	08.10.2018 17:00		
3		Research and Environment Setup	2 günler?	09.10.2018 08:00	10.10.2018 17:00		
4		Researching Platforms	2 günler?	09.10.2018 08:00	10.10.2018 17:00		Everyone
5		Environment Setup	2 günler?	09.10.2018 08:00	10.10.2018 17:00	2	Everyone
6		Implementation	55 günler?	11.10.2018 08:00	04.12.2018 17:00		
7		Back-End	55 günler?	11.10.2018 08:00	04.12.2018 17:00		Ozan Kinasakal;Umut Barış Öztunç;Mehmet Çalim
8		Database	4 günler?	11.10.2018 08:00	14.10.2018 17:00	5	
9		Server	3 günler?	15.10.2018 08:00	17.10.2018 17:00		
10		Sign Up	1 gün?	18.10.2018 08:00	18.10.2018 17:00	9;8	
11		Login	1 gün?	19.10.2018 08:00	19.10.2018 17:00	10	
12		Project Creation	4 günler?	20.10.2018 08:00	23.10.2018 17:00		
13		Milestone 1	0 günler?	23.10.2018 17:00	23.10.2018 17:00	12	
14		Homepage	7 günler?	23.10.2018 08:00	29.10.2018 17:00		
15		User Profiles	7 günler?	23.10.2018 08:00	29.10.2018 17:00		
16		Customer Milestone	0 günler?	30.10.2018 08:00	30.10.2018 08:00		
17		Search Mechanism	7 günler?	30.10.2018 08:00	05.11.2018 17:00	13	
18		Bidding Mechanism	7 günler?	30.10.2018 08:00	05.11.2018 17:00		
19		Annotation Mechanism	14 günler?	30.10.2018 08:00	12.11.2018 17:00		
20		Milestone 2	0 günler?	12.11.2018 17:00	12.11.2018 17:00	17;18;19	
21		Recommendation Mechanism	7 günler?	13.11.2018 08:00	19.11.2018 17:00		
22		Messaging Mechanism	7 günler?	14.11.2018 08:00	20.11.2018 17:00	20	
23		Payment Mechanism	7 günler?	21.11.2018 08:00	27.11.2018 17:00		
24		Customer Milestone2	0 günler?	04.12.2018 17:00	04.12.2018 17:00	22;23	
25		Front-End	55 günler?	11.10.2018 08:00	04.12.2018 17:00		Berkay Kozan;Abdurrahim Eskin;Kübra Eryilmaz;Semih Arı;Burak Tepedelen
26		Login	4 günler?	11.10.2018 08:00	14.10.2018 17:00	5	
27		Sign Up	5 günler?	15.10.2018 08:00	19.10.2018 17:00	26	
28		Homepage	4 günler?	20.10.2018 08:00	23.10.2018 17:00	27	
29		User Profiles	4 günler?	20.10.2018 08:00	23.10.2018 17:00		
30		Project Creation	4 günler?	20.10.2018 08:00	23.10.2018 17:00		
31		Milestone 1	0 günler?	23.10.2018 17:00	23.10.2018 17:00	28;29;30	
32		Homepage	7 günler?	23.10.2018 08:00	29.10.2018 17:00		
33		User Profiles	7 günler?	23.10.2018 08:00	29.10.2018 17:00		
34		Customer Milestone	0 günler?	30.10.2018 08:00	30.10.2018 08:00		
35		Search Mechanism	7 günler?	30.10.2018 08:00	05.11.2018 17:00	31	
36		Bidding Mechanism	7 günler?	30.10.2018 08:00	05.11.2018 17:00		
37		Recommendation Mechanism	7 günler?	30.10.2018 08:00	05.11.2018 17:00		
38		Annotation Mechanism	14 günler?	30.10.2018 08:00	12.11.2018 17:00		
39		Milestone 2	0 günler?	12.11.2018 17:00	12.11.2018 17:00	35;36;37;38	
40		Recommendation Mechanism	7 günler?	13.11.2018 08:00	19.11.2018 17:00		
41		Messaging Mechanism	7 günler?	14.11.2018 08:00	20.11.2018 17:00	39	
42		Payment Mechanism	7 günler?	21.11.2018 08:00	27.11.2018 17:00		
43		Customer Milestone2	0 günler?	04.12.2018 17:00	04.12.2018 17:00	41;42	
44		Test and Code Review	10 günler?	05.12.2018 08:00	14.12.2018 17:00	24;43	
45		Testing Web	10 günler?	05.12.2018 08:00	14.12.2018 17:00		Kübra Eryilmaz;Ozan Kinasakal;Semih Arı;Burak Tepedelen;Umut Barış Öztunç;Mehmet Çalim
46		Testing Mobile	10 günler?	05.12.2018 08:00	14.12.2018 17:00		Berkay Kozan;Abdurrahim Eskin
47		Code Reviews	10 günler?	05.12.2018 08:00	14.12.2018 17:00		Everyone
48		Debug	5 günler?	15.12.2018 08:00	19.12.2018 17:00		
49		Debuging	5 günler?	15.12.2018 08:00	19.12.2018 17:00	44	Everyone
50		Presentation	1 gün?	20.12.2018 08:00	20.12.2018 17:00		
51		Presentation	1 gün?	20.12.2018 08:00	20.12.2018 17:00	48	Everyone
52		Milestone 4	0 günler?	20.12.2018 17:00	20.12.2018 17:00	51	

## 7 Code Structure and Group Process

We have different branches for different developer teams. All sub-group members are working on the same branch.

## 8 Evaluation of Tools and Project Management

### 8.1 Tools

Up to the present, we used some tools to manage our project.

- **Github** : It was a base for our project. One can see all of our work done in our repository and wiki page. It also helped to our communication via issues part.
- **Git** : We used git for implementation part of the project. It was a super useful tool for collaborate software development.
- **Project Libre**: We used this for creating project plan.

- **React:** We used react for the front-end for our first milestone. We remained with react.
- **React-Bootstrap:** After first milestone, we left material-ui and we decided to use react-bootstrap. It is not comprehensive like material-ui however it is easier to use.
- **Webstorm:** For front-end we used Webstorm as ide. Its pretty checking functions(ESLint) can be annoying but at the end it is helpful.
- **Django:** We used Django for the backend development with some additional modules like Django REST Framework and Django REST Auth to create API endpoints in our backend server.
- **AWS:** We used AWS for serving our application. EC2 for creating servers, Simple Email Service for using smtp server as mail sender.

## 8.2 Project Management

Since from the last milestone, the group and it's behavior changed a lot. From the unsuccessful results of first milestone, we learned a lot. The project management is still a hard task to accomplish, but we were better to manage the team in this milestone.

First of all, we had to do big changes in our team, and got big decisions in one of our meeting. We decided on using GitHub and it's issue system properly. Everyone is agreed on this decision. Because of the fact that we use GitHub more efficiently, everything in this project and everyone's task is more clear to others. We used issue system of GitHub conveniently.

One of the biggest changes in the group is that people's behaviour themselves. The group got its lesson from the first milestone and everyone's pretty much in communication with others. The frontend, backend and android teams were more in contact then the first milestone.

Because of the fact that we were so missing in first milestone, it was a hard task to complete all features of milestone 2. There are still missing parts in this milestone and everyone in this team is more committed and we decided to finish the missing parts until Monday 10th of December 2018.

We will try to be better at the final milestone and finish the project without missing parts.