<WWDS>

Requirements Specification and Analysis

<1.0>

<17.11.2017>

<Ali ALTINEL
Mercan GÜLTEKİN
Serdar ÜNLÜSOY
Erdal YURTSEVEN>

Prepared for

SE301 Software Engineering

IŞIK UNIVERSITY
COMPUTER
SCIENCE AND
ENGINEERING

Table of Contents

1. Introduction....1
1.1. Purpose of the System....1
1.2. Scope of the System....1
1.3. Objectives and Success Criteria of the Project....1
1.4. Definitions, Acronyms, and Abbreviations....1
1.5. Overview....1
2. Current System....1
3. Proposed System....1
3.1. Overview....1
3.2. Functional Requirements....2
3.3. Nonfunctional Requirements....2
Usability....2
Reliability....2
Performance....2
Supportability....2
Implementation....2
Interface....2
Packaging....2
Legal....2
3.4. System Models....2
Scenarios....2
Use case model....2
Object model....2
Dynamic model....2
User interface—navigational paths and screen mock-ups....3
4. Glossary....3
5. References....3

REQUIREMENTS ANALYSIS DOCUMENT[Bruegge B. & Dutoit A.H.. (2010). Object-Oriented Software Engineering Using UML, Patterns, and Java, Prentice Hall, 3rd ed.]

1. Introduction

The purpose of our system is to connect people via worldwide. Mainly the WWDS is for donating stuff for projects in order to provide a platform for people such that they can whether donate their stuff or start a project to gather stuff. There are many other systems exist for similar purposes of course but the main difference of the WWDS is not being focused on money. As our client wishes if a person knows about a group in need and what they need then s/he can easily announce and collect stuff to deliver or else if a person wants to help another s/he can just donate. The "non-money oriented" way of WWDS is to prevent any kind of sordidness.

1.1. Purpose of the System

The WWDS aims to provide a platform both for people want to donate their stuff and people who want to start an aid campaign.

1.2. Scope of the System

Since the system is online it can reach to people worldwide which means any local benevolent can easily start campaigns. These campaigns can be easily supported by anyone's donations.

1.3. Objectives and Success Criteria of the Project

The goal of the WWDS is minimizing the waiting of people in need. WWDS also aims to put an end to doubtful aids in different social platforms. When you donate to WWDS you know that it is to a project that approved by our admin. Also when you really try to help people all you have to do is specify what you need. Then when you get your cargo just inform us that it's correct.

1.4. Definitions, Acronyms, and Abbreviations

The WWDS: Acronym of the projects name which stands for The World Wide Donation System

V1.0: "V" stands as an abbreviation for "version" and 1.0 defines that it's the first version of the WWDS.

<The WWDS>

1.5. Overview

This documentation is the RAD for the WWDS V1.0. It consists of 5 main subsections which are listed in detail at "Table of Contents" part just after the cover page. Since this project does not imply any packaging or legal requirement there are no definitions for these in this RAD although they have been listed in Table of Contents.

2. Current System

In this project no existing system will be replaced hence a new one will be built as follows;

Our system is designed to use cargos instead of money as donations. Our system have three different types of users and each user type have different way to use the system. Visitor can either sign-up to system, can view project pages and search for anything he/she want from the system.. Visitor can us sign-in function to register themselves by giving their required personal information to system. After Visitor signed-up to system, User can log-in to system later and use main functions of the system. User can display his/her profile page, make a donation to another donation project, search anything he/she wanted from the WWDS system, start a donation project, edit their donation project and log-out from the system. When user display their profile page, user can display their ongoing donations which is user using viewing their donations made to another project to be verified by the other User managing his/her project, display their finished projects, display their verified donations made, display their projects which are successfully ended and lastly user will able to edit their own profile. When user start a donation, user enters the information about his/her project and then send project information to admin to be validated and uploaded to system. User can edit his/her project in similar fashion. Only difference is, User should select project to be edited and change information of the project. User can make donation by register their donation to the system first. System give a number to User. User send cargo with the number given by system and User take new cargo number. Finally, User register the cargo number to system to complete the donation. Users can verify their cargo when expected cargo is actually came up. To do that first user should display their active projects. Then select one of his/her project and display cargo list of his/her project and then User can verify the cargo. To donation made by other User completely finished, User managing the project should verify cargos he /she expected first. Lastly Admin can verify projects which are about to uploaded to the system or can verify modifications done to the project which is about to uploaded to the system.

3. Proposed System

<The WWDS>

3.1. Overview

We are planning to implement a web application named “World Wide Donation System”.

In our system, there are 3 major roles which are ***Visitor, User, Admin.***

Visitors are unregistered users who can only search donation projects initiated by other users and display information of donation projects.

on the system.

Users can be both Project Leader and Donator roles. The main function of Project Leader role is to be able to start a project with ***admin*** approval. The main function of Donator role is to make a donation to initiated any project through free cargo.

Admin is an actor that approves and checks some functions performed by the users in our system.

The main functions of our system are to start a project and donate to a project.

3.2. Functional Requirements

Our system serves for 3 major actors as mentioned before. With the exclusion of Visitor instance, our system should hold every individual’s data that are signed up to the system.

If a ***Visitor*** wants to become an ***User*** of the Worldwide Donation System, he/she should fill signing up form that includes his/her own personal information.

A ***User*** should log in to the system with his/her "username" and "password" should be able to use functions of the system. On the other hand, he/she can only use search function of the system.

Visitor can use the following functions:

Search

Display Project Information

Sign Up

Admin can use the following functions:

Search

Display Project Information

Login/Logout

Verify Project

<The WWDS>

Reject Project

Verify Edit

Reject Edit

Users can use the following functions:

Search

Display Project Information

Login/Logout

Donate

Cancel Donation

Display Profile

Display Ongoing Donations

Complete Donation

Display Donated Projects

Display My finished Projects

Start Project

Edit My Active Project

Display My Active Projects

Display Cargo List Of My Projects

Verify Cargo

Reject Cargo

Sign Up: When a ***visitor*** visits Website, he/she should sign up to the website by clicking sign up button on the homepage. He/she should fill signing up form which requires a Username, Name, Surname, E-mail, Secret Question, Secret Answer.

Login: On the home page, the ***User*** or ***Admin*** should login to the Website by clicking login button to use functions of the system and the login page should open. Afterwards the ***User*** or

Admin has to enter his/her "Username" and "Password". If "Username" or "Password" is wrong, the ***User*** or ***Admin*** should see an error message.

Logout: If the ***User*** or ***Admin*** logged in to the Website, they should see a button to logout on the any page.

Search: A ***Visitor, User or Admin*** should search donation projects according to two search options. The search options should be project names and categories. Every ***User*** should do search on every page of the site.

Display Project Information: A ***Visitor, User or Admin*** should display information of projects as a detail page when they clicked on created projects and they should see complete and accurate information about the projects.

Verify Cargo: After ***Users*** complete donation on the system, when the cargo arrives the address, the ***User*** who creates the project first should display “My Active Projects”, after that the ***User*** should display “Cargo List Of My Project" and he/she should compare the cargo that comes with the donation form sent by the ***User*** through the system. If the cargo that comes and the donation form sent by the ***User*** through the system are the same, the ***User*** who initiated the project should *Verify Cargo* on the system and the system should give a feedback to the sender of the cargo.

Reject Cargo: After ***Users*** complete donation on the system, when the cargo arrives the address, the ***User*** who creates the project first should display “My Active Projects”, after that the ***User*** should display “Cargo List Of my Project and he/she should compare the cargo that comes with the donation form sent by the ***User*** through the system. If the cargo that comes and the donation form sent by the ***User*** through the system **are not** the same, the ***User*** who initiated the project should *Reject Cargo* on the system and the system should give a feedback to the sender of the cargo.

Display My Active Projects: After the ***User*** logged in to the Website, he/she may display his/her own projects initiated, the ***User*** should click on “Display My Active Projects” button and the system should display the list of the project that ***User*** has started successfully. If there is not any project initiated yet, the list will be seen empty.

Display Cargo List Of My Project: After the ***User*** logged in to the Website, he/she may want to display or check the cargo list of his/her project. First the ***User*** should click on "Display My Active Projects" button and the system should display the list of the project that ***User*** has started successfully. After that, he/she should click on the project that he/she wants to display the cargo list of that project and the system should displays the list of cargos that sent for that project in two lists as sent and delivered.

Display Profile: After the ***User*** logged in to the Website, if the ***User*** wants to display his/her profile page. The ***User*** should click on "My Profile Page" button and the system should display ***User*** to his/her Profile Page successfully.

Display Donated Projects: After the ***User*** logged in to the Website, the ***User*** should click on "Display Profile" button first and then the ***User*** should display "Donated Project". The system should display the list of projects that the ***User*** has made donation.

Display My finished Projects: After the ***User*** logged in to the Website, the ***User*** should click "Display My Profile Page" button first, after that, he/she should display "My Finished Project". The system should display the list of projects that are finished.

Finished project should be added to "My Finished Profile Page".

Display Ongoing Donations: ***User*** should make a donation entry to the system. After the ***User*** gets the cargo shipping number from the Cargo Company, he/she must be logged in to the system and then he/she should display his/her profile page, after that, the **User** should click "Display Ongoing Donation". The system should display a table, containing information about ongoing donations.

Verify Edit: ***User*** who initiates a project may want to make an edit on his/her project and after changes modified project is sent ***Admin*** for approval as "Modified Project". ***Admin*** must be logged in. System should display a list of projects waiting for approval and system should display the details of that project. ***Admin*** should verify the project if he/she sees fit changes by clicking on "Verify Edit Button".

Reject Edit: ***User*** who initiates a project may want to make an edit on his/her project and after changes modified project is sent ***Admin*** for approval as "Modified Project". ***Admin*** must be logged in. System should display a list of projects waiting for approval and system should

display the details of that project. ***Admin*** should reject edit the project if he/she does not sees fit changes by clicking on “Reject Edit Button”. System should close the project's information and display a message that saying "Project Edit is Rejected".

Verify Project: When a ***User*** starts a project, it must be sent for ***admin*** approval. ***Admin*** must be logged in. System should display a list of projects waiting for approval. System should display the details of that project. ***Admin*** should verify the project by clicking on "Verify Project Button". System should display the project's details and a message that saying "Project is Verified".

Reject Project: When a ***User*** starts a project, it must be sent for ***admin*** approval. ***Admin*** must be logged in. System should display a list of projects waiting for approval. System should display the details of that project. If ***Admin*** does not see fit the project he/she should reject the project by clicking on "Reject Project Button". System should close the project's information and display a message that saying "Project is Rejected".

Start Project : After the ***User*** logged in to the Website, he/she may want to start a project. The ***User*** should start a project by clicking "Start Project" button and then the system should display a project form. The ***User*** has to fill project form complete and accurate, Finally project form should be sent for approval of the ***admin*** so that the project can be started.

Donate: When a ***user*** wants to donate stuff to a project s/he only needs to fill out a basic form consisting of a list which holds the information of what and how many s/he will donate .After this operation system generates a cargo code for the ***user*** to let him/her send the stuff freely. Whilist s/he cargos the stuff system automatically adds the ongoing donation to the ***user***s profile in order to provide an easy completion process when ***user*** wants to find that donation again and enter the cargo track number for completing the donation.

Complete Donation: ***User*** should make a donation entry to the system. After the ***User*** gets the cargo shipping number from the Cargo Company, he/she must be logged in to the system and then he/she should display his/her profile page, after that, the ***User*** should click "Display Ongoing Donation". The system should display a table, containing information about ongoing donations. System should display form asking ***User*** to fill cargo shipping number. ***User***

should fill out the form writing cargo shipping number. Finally the ***User*** should click "Complete Donation" button and the form is sent the ***User*** who initiated the project.

Cancel Donation: Before the ***User*** go to the Cargo Company, he/she may give up donating or he/she may want to make a donation another project. He/she must be logged in to the system and then he/she should display his/her profile page, after that, the ***User*** should click "Display Ongoing Donation". The system should display a table, containing information about ongoing donations. The ***User*** should click on "Cancel Donation" button on project that he/she wants to give up donating.

Edit My Active Project: The project about to Edit should be in the system and created by the ***user***. ***User*** should click on the "Edit My Active Project" button and the system should direct ***user*** to "Edit My Active Project Page". System should list Projects created by the ***User*** to be edited. ***User*** selects one of his/her project. ***User*** is directed to "Project Edition Page" by the system. In the "Project Edition Page", ***User*** should either change Project's "Project Profile Picture", "Project Description", "Items Needed for The Project" and "Project Pictures". After ***User*** made changes, ***User*** should save edit. The system should send project as "Modified Project" to ***Admin***.

All the above functional requirements are high level.

3.3. Nonfunctional Requirements

Describes user-level requirements that are not directly related to functionality. This includes usability, reliability, performance, supportability, implementation, interface, operational, packaging, and legal requirements.

Usability

-Understandable, short and helpful instructions should guide a user through his/her donation process

-The user should be able to log-in or register from all pages of the site he/she can access. If already logged in, the user should be able to log-out likewise.

- The search field should be easy to find or return to from different pages of the site.

-The search results provided for the user should be easy to understand and navigate. The user should be able to order the listed results according to different interest.

-The donation information page should have a link for easy access and share ability.

<The WWDS>

- All users are expected to know how to use computer and internet.

- Any user who knows their “Username” and “Password” can use Worldwide Donation System to perform operations of their accounts.

Reliability

-WWDS should reliably give fitting results on a search.

- WWDS should make no errors while making donation and starting campaign.

Performance

-The system should be up %95 of the time (network failures disregarded).

- The system should be connected to the Internet.

Supportability

-- The site should be easy to extend. It should be coded in a way that it is allows for easy implementation of new functions.

- The site should have a test environment for local testing of its functions

Implementation

-The front-end software related with the system should be written using HTML, CSS and Java script and bootstrap & materialized frameworks while the back end is written using C#, ASP.NET, MSSQL.

Interface

-To use WWDS, you require a Web browser. The system should display perfectly on supported Web browsers, which are:

Google Chrome

Mozilla Firefox

Packaging↓

Reliability

- When an expected exception is occurred, a related message is shown to the user.

-Anyone who doesn’t know the “Username” and “Password” cannot access any user information or operation.

<The WWDS>

3.4. System Models

Scenarios

```
Scenario Name:What a Great Project!

Participating Actor Instance(s):Trevor-Admin

Flow Of Events:

1)Trevor enters the WWDS and logs in.
2)Trevor sees a notification on his screen and clicks on it.
3)Trevor sees a page which contains a list of project names which are waiting for an approval.
4)Trevor clicks on "Donate for Africa Project".
5)Trevor reads the information written about the project and likes it.
6)Trevor clicks on Approve Project button and sees a message that says "Project has been created."
```

```
Scenario Name : Directed Login
Participating Actor Instances : Elizabeth : User
Flow Of Events :
1) Elizabeth opens up his computer. s                    operating system .
2)  She opens up her browser, writes World Wide Donation Manager's url to browser's searchbox and enters the web site of the World Wide Donation.
3) Since Elizabeth entered the web site of World Wide Donation System's web site. Elizabeth decides to check out new project.
4) Elizabeth clicks on "Display Profile" button.
6) Since Elizabeth didn't logged in to the system, WWDS system displays "log-in" form.
7) Elizabeth either login to the WWDS system or Elizabeth needs to be sign-in to the system to able to log-in to WWDS system.
```

```
Scenario Name : Display Started Projects
Participating Actor Instances : Dan : User

Flow Of Events :
 1) Dan opens up his computer.
2)  He opens up his browser, writes the World Wide Donation Manager's url to browser's searchbox and enters the web site of the World Wide Donation
3)  Dan decides to login
4)  After Dan logged in, he selects "Display My Active Projects"
6) WWDS shows a list of project Dan has been started.
```

```
Scenario Name:Let's see how is it going.

Participating Actor Instance(s):Jonathan-User
Flow Of Events:

1)Jonathan enters the WWDS and logs in.
2)Jonathan clicks on display my projects button in his profile page and sees the projects he has started as a list.
3)Jonathan clicks on display cargo list button next to "Donate for Africa Project" and sees the list of cargos that has been sent for project.
4)Jonathan clicks on display info button next to cargo "123" and sees the details of cargo.
5)Jonathan approves the cargo "123" by clicking approve cargo button since it has reached to him and he checked it.
6)Jonathan sees the cargo list and clicks on display info button for cargo "777" this time.
7)He checks the information of it and notices it requires 77 blankets while he got 33 CD's in this cargo.
8)Jonathan rejects the cargo by clicking reject cargo button.
9)Jonathan quits the system and goes to cargo office to return the cargo.
```

<The WWDS>

Scenario name : DisplayDonatedProjectScenario
Participant Instances : Jane : user

Flow of events:
1) Jane logs-in to the system.
2) She clicks on "My Profile" button.
3) WWDS view Jane's profile page to Jane.
4) She clicks on "Display Donated Projects"
5) WWDS displays the list of projects that Jane made donation.

Scenario Name : DisplayMyFinishedProjectsScenario
Participating Actors : Larry : User

Flow of Events :
1) User logs-in to WWDS system.
2) "Start Project","Edit my project","Donate","Logout","Display Profile",
"Search","Display Ongoing Donations","Display My Active Projects" enabled and Sign-in is disabled.
3) Larry selects "Display Profile".
4) WWDS system directs User to profile page. Display tabs such as "Edit Profile" option,
"Display Ongoing Donations" button, "Display My Finished Projects" option,"Display Donated Projects" option.
5) Larry selects "Display Finished Projects"
6) WWDS displays the list of project that are finished. When items needed for
the project is satisfied, project is finished. Finished project added to DiplayMyFinishedProjects.

Scenario Name : DisplayMyFinishedProjectsScenario
Participating Actors : Larry : User

Flow of Events :
1) User logs-in to WWDS system.
2) "Start Project","Edit my project","Donate","Logout","Display Profile",
"Search","Display Ongoing Donations","Display My Active Projects" enabled and Sign-in is disabled.
3) Larry selects "Display Profile".
4) WWDS system directs User to profile page. Display tabs such as "Edit Profile" option,
"Display Ongoing Donations" button, "Display My Finished Projects" option,"Display Donated Projects" option.
5) Larry selects "Display Finished Projects"
6) WWDS displays the list of project that are finished. When items needed for
the project is satisfied, project is finished. Finished project added to DiplayMyFinishedProjects.

Scenario Name : DisplayOngoingDonationsScenario
Participating Actor Instances : Nina : User

Flow of Events :

1) Nina logs-in to WWDS system.
2) WWDS system "Start Project","Edit my project","Donate","Logout","Display Profile",
"Search","Display Ongoing Donations","Display My Active Projects" options are enabled and "Sign-in" option is disabled.
3) User selects "Display Profile" option.
4) In the "Display Profile page", WWDS view "Display Donated Projects", "Display My Finished Projects" and "Display Ongoing Donations"
to be selected by User.
5) User selects "Display Ongoing Donations"
6) WWDS system shows a list, containing informations about ongoing donations.
7) User clicks on one of the ongoing donation made to a project.
8)WWDS system display form asking User to fill cargoID
9) User fills out the form writing cargoID.
10)WWDS does the validation. Then shows the cargo information of User's donation given to project selected by user.

Scenario Name:Looking at Site

Participating Actor Insatance(s):Johanna:Visitor

Flow Of Events:

1)Johanna enters the WWDS web site.
2)Johanna sees the project called "Donate for Africa".
3)She gets very interested about the project and clicks on the cover image of project.
4)She sees the projects information and more images of project.

Scenario Name: AngelinaDonatesToAProject
Participating actor instance: Angelina: User(Donates), Mercan: User(The Project Owner)
Pre-condition: Angelina wants to donate to a project by contributing.
Flow of events:

1. Angelina logins to WWDS and sees the last 10 projects launched by Project Leaders on the main page.
2. She clicks on a project named “Blankets for children!!” belongs to natural disasters category from 10 projects she sees and the system opens detail page of the project on the same page.
3. She sees the number of goods needed , donated and pending (on the road by cargo) of project on the screen.
4. She sees the number of goods donated as 14 out of 50 , 9 on the road and 27 needed.
5. She would like to donate 27 blankets for this project and she clicks on the button named “Contribute to this project” and the system opens cargo details of the project.
6. On the cargo details Angelina selects blankets and enters 27.Then she clicks on get free cargo code button.
7. The system generates a code that is “153498” and displays on the screen. So that Angelina can send the goods as free of charge by X Cargo Company that has contracted with WWDS.
8. She clicks on "I got the code!" button and the system writes a notification under the code that is , “Your donation has been approved by the system , to continue donation and for free of charge shipping keep this code to give X Cargo Company. Thank you for your donation!”
9. She logouts and goes to X Cargo Company.
10. She gives X Cargo Company the code that system generated.
11. X Cargo Company sees the code she gives and checks for free of charge shipping on their own system.
12. The system of X Cargo Company informs that they are in agreement with WWDS and gives approval for free shipping.
13. X Cargo Company gives Angelina a form to fill her personal information, the address of place which she wants to send goods , name of the goods and the number.
14. She fills her personal information. In that , Name:Angelina Surname:Jolie , Identification Number:1982734 , Contact Number:55599922 , Name of the Goods to be shipped:Blankets , Number of Goods:27 , Address of goods to send: P.O. Box 25497 , Kampala, UGANDA.
15. X Cargo Company checks the form Angelina filled with the goods and her personal information.
16. X Cargo Company confirms that the personal information of Angelina , What is being sent and the number of goods are correct.
17. X Cargo Company takes 27 blankets and gives Angelina the cargo shipping number.

18. Angeline logins to the system again and she clicks on the “My continuing donations” button on her own user page.
19. She clicks on "Blankets for Children!!" under the "ongoing donations section" in her profile page.Then system displays the ongoing donation that Angelina started to this project in order to donate 27 blankets.
20. She enters the cargo shipping number given by X Cargo Company into blank box that it is displayed on the screen by the system.
21. She clicks on “Donate” button under the box where she filled cargo shipping number.
22. She sees the notification , that is “Your donation has been approved by the system, we will inform you when your donation reaches the Project Leader. Thank you for your donation!” on the screen after she clicks on “Donate” button.
23. The system opens the detail page of project as updated on the same page.
24. Angelina sees the detail page of project with the following ratios of Blankets : 14/50 donated , 36/50 on the road and 0/50 needed.
25. Mercan sees a notification about the donation that Angeline did in her profile page.
26. This notification says "A cargo has added to your project"

```
Scenario Name : EditProfileScenario
Participating Actors Instances: Nick : User

Flow of events :
1) Nick logs-in to WWDS system.
2) Nick clicks on "Display My Profile Button".
3) WWDS directs user to his account page.
4) User clicks on "Edit profile" button.
5) WDDS system displays a form. Nick can change his password or Nick can change his email address.
6) Nick enters his new password and clicks on "Accept Changes" button.
```

```
Scenario Name : Failure Edit
Participating Actor Instances : Kim : User
                                Cherie : Admin
Flow Of Events :
1) Kim writes the World Wide Donation Manager's url to browser's searchbox and enters the web site of the World Wide Donation.
2) After Kim entered the web site of World Wide Donation System's web site. Kim decides to login
3)  After Kim logged in to the WWDS system, he selects "Edit Project".
4) WWDS system direct user to list of projects to be edited.
6) In "Projects" page, WWDS will list Kim's projects projects to be edited.
7) Kim selects one of his projects called called "Earthquake Victims Donation"
8)   WWDS opens his "Earthquake Victims Donation" donation page to be edited. Make "Project Profile Picture",
"Project Description","Items Needed for The Project"," Project Pictures" are editable. "Save Edit" option button is available.
9) Kim changes the project description.
10) WWDS system refresh the page with new profile picture for preview.
11) After Kim is satisfied with his change(s), Kim selects "Save Edit".
12) WWDS send a nortification to Adam. After Adam view his nortification, he views the modified "Hurricane Victims Donation" page.
13) Adam selects on "Disapprove Changes". Because there is an error in the project description. (It could be typo, misapporiate project
description etc...)
14) WWDS system reloads the "Earthquake Victims Donation" to be edited again to Kim
```

Scenario Name : Successful Edit Scenario
Participating Actor Instances : Jane : User
Adam : Admin
Flow Of Events :
1) Jane opens her browser and enters the url of WWDS website to browser's search box.
2) She logs-in to WWDS system.
3) "Start Project","Edit My Project","Donate","Logout","Display Profile", "Search",
"Display Ongoing Donations","Display My Active Projects" buttons become enabled and "Sign-in" button is disabled.
4) She clicks on "Edit My Project Button".
5) WWDS system direct user to list of projects to be edited. She clicks on of her project to edit called "Hurricane Victims Donation".
6) WWDS opens her "Hurricane Victims Donation" donation page to be edited. Make "Project Profile Picture",
"Project Description","Items Needed for The Project"," Project Pictures" are editable. "Save Edit" option button is available.
7) Jane uploads new Project Profile Picture to her project.
8) WWDS system refresh the page with new profile picture for preview.
9) After Jane satisfied with her change(s), Jane selects "Save Edit".
10) WWDS send a nortification to Adam. After Adam view his nortification, he views the modified "Hurricane Victims Donation" page.
11) Adam selects on "Approve Changes".
12) System reuploads the project to WWDS system and send notification to Jane and show the preview of her recent state of her project.
13) Jane saw the message send by WWDS and then she clicks "Ok" button.
14) WWDS redirect Jane to WWDS homepage.

Scenario Name:Display Profile

Participating Actor Instance(s):Eric:User

PreCondition(s):Eric logs into system successfully.

Flow of Events;

1)Eric clicks on "MyProfileButton".
2)System displays Eric's profile page.
3)Eric sees three empty lists which are sayin "You have no ongoning donations.","You haven't donated to any projects yet.",
"You haven't started any projects yet." respectively.

Scenario Name: JohnsonnLogoutsFromTheSystem
Participating actor instance: Johnsonn: RegisteredUser
Pre-condition: Johnsonn wants to look over projects launched by Project Leaders.
Flow of events:

She logins to WWDS and sees the last 10 projects launched by Project Leaders on the main page.
She clicks on a project named “Donate books for students' library...” belongs to Education Category from 10 projects she sees and the system opens detail page of the project on the same page.
She sees the number of stuffs needed , donated and pending (on the road by cargo) of project on the screen.
She sees the detail page of project with the following ratios of Books : 0/1000 donated , 1000/1000 on the road and 0/1000 needed.
She would like to donate books but she sees that there are already 1000 books to be delivered out of 1000 books.
She wants to logout of the system , she clicks to logout button which is located upper-right area of the main Website and she logouts.

```
Scenario Name : Default Login Failure
Participating Actor Instances : Laura : User
Flow Of Events :
1) Laura opens up his computer.
2) She opens his browser, writes the World Wide Donation Manager's url to browser's searchbox and enters the web site of the World Wide Donation.
3) Since Laura entered the web site of World Wide Donation System's web site. Laura decides to log-in.
4) Laura clicks on "login button"
5) To login Laura need to enters his username and password. After she entered her credentials, system check her credentials.
6) Since Laura either didn't singed-on to the system before or she entered wrong
credentials, Laura won't going to login to the system
```

```
Scenario Name : Default Login Success
Participating Actor Instances : Logan : User
Flow Of Events :
1) Logan opens up his computer. He opens up his browser
2) After he logged on, he opens his browser, writes the World Wide Donation Manager's url
to browser's searchbox and enters the web site of the World Wide Donation.
3) Since Logan entered the World Wide Donation System's web site Logan decides to log-in.
4) Logan clicks to "log-in button".
6)Since he didn't logged on to system yet so when he clicked to login button, WWDS displays "login form".
7) To login Logan needs to enter his username and password. After he entered credentials, system checks Logan's credentials.
8) Since Logan singed-on to the system before, Logan will be login to system.
9) On the website page, "Start Project","Edit my project","Donate","Logout","Display Profile",
"Search","Display Ongoing Donations","Display My Active Projects" buttons are enabled and
"Sign-in" button is disabled.
```

Scenario Name: MarySearchesAProjectByCategory
Participating actor instance: Mary: Visitor
Pre-condition: Mary wants to search a project by category without signing up.
Flow of events:

1. Mary opens the browser, writes WWDS' url to the browser's searchbox and enters the web site of the World Wide Donation System.
2. She is not a registered user of the system and she prefers making search without signing up.
3. She clicks on the Categories button and the categories of projects are listed down by the system.
4. She selects the type of Category as "Education" by clicking on.
5. The system lists the projects by education as the most recent.

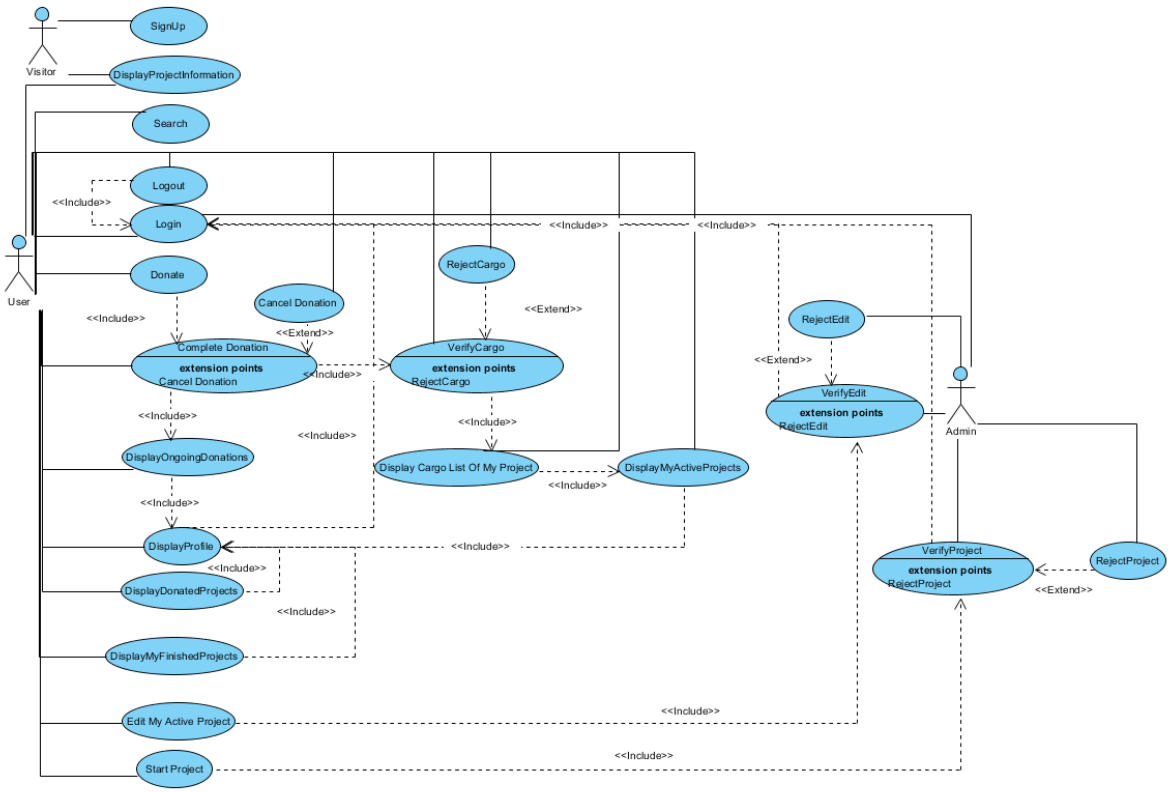
```
Scenario Name:What is this?

Participating Actor Instance(s):Trevor-Admin

Flow Of Events:

1)Trevor enters the WWDS and logs in and sees the home page of the WWDS.
2)Trevor clicks on display pending projects button on the top of the home page.
3)Trevor sees a page which contains a list of project names which are waiting for an approval.
4)Trevor clicks on "Let's kill our teacher!".
5)Trevor reads the information written about the project and doesn't like it.
6)Trevor clicks on Reject Project button and sees a message that says "Project has been rejected."
```

Use case model



Use Case Diagram of the WWDS

```
Use Case Name:Display Cargo List of Project

Participating Actor(s):User-Initiates

Entry Condition(s):
1)User must first use Display Started Projects Use Case

Exit Condition:Display the list of cargos sent for this project.

Flow of Events:

1)User clicks on "Display Cargo List Button" in the list of his/her started projects
        2)System displays the list of cargos that sent for this project in two lists as sent and delivered.
```

```
    Use Case                : Display Profile Page
    Participating Actors    : Initiated by User
    Entry Condition         : User must be logged to the WWDS.

    Flow of Events :
    1)  WWDS displays Home Page after User logins to the WWDS.
    2)  User clicks "My Profile Page button"."
    3)  WWDS displays User to His/Her Profile Page.

    Exit Condition : User should be successfully display his/her profile page
```

Usecase Name : DisplayDonatedProjects
Participating Actors: User as Initiator
Entry Condition: User should click on "Display Profile" first.

Flow of Events :
1) User clicks on the "Display Donated Projects button"
2) WWDS displays the list of projects that User has made donation.

Exit Condition : User successfully display the list of his/her projects:

Quality Requirements : This use case includes "DisplayProfile" use case. When user clicks on "Display Profile button", user will able to click on "Display Ongoing Donations", "Display My Finished Projects", "Display Donated Projects", "Display Started Projects"

Use Case Name: DisplayMyActiveProjects
Participating Actors : User as initiator
Communicates With WWDS
Entry Condition : User should login to system
User should click on "Display My Active Projects" button
Flow of Events :
1) User clicks "Display My Active Projects button".
2) System displays the list of the project that user has started.
Exit Condition : User successfully views the list of the projects that s/he started.

Usecase Name : DisplayMyFinishedProjectsUseCase
Participating Actors : User as Participant

Entry Condition : User clicks on "Display My Profile Page button" first.

Flow of Events :
1) User clicks on the "My Finished Projects button"
2) WWDS displays the list of projects that are finished. When items needed for the project is satisfied, project is finished. Finished project added to "Display my Finished Projects Page".

Exit Condition : User will see his/her finished projects successully.

Usecase Name : DisplayOngoingDonations
Participating Actors : User as Participant

Entry Condition : "Complete Donation" use case should initiated.
User should click on "DisplayProfile"
User should made a donation entry to the system,
have donation ID and then get the CargoID from the cargo company.

Flow Of Events :

1) User selects "Ongoing Donations button"
2) WWDS system shows a table, containing informations about ongoing donations.
3) User clicks on one of the ongoing donation made to a project.
4)WWDS system display form asking User to fill cargoID
5) User fills out the form writing cargoID.
6)WWDS does the validation. Then shows the cargo information of User's donation given to project selected by user.

Exit Condition : User done viewing "Ongoing Donations Table" and either selects other tab or User returns to frontpage.

Use Case Name:Display Project Information

Participating Actor(s):Initiated by Visitor or User

Entry ConditionThere exists at least one approved project in the system.

Exit Condition:Display a project's page.

Flow of Events:

1)The actor clicks on a project.

2)System displays the information page of that project.

Usecase Name : EditMyActiveProject
Participating Actors: User as Initiator
Entry Condition: The project about to Edit should be in the system and created by the user.

Flow of Events :
1) User clicks on the "EditMyActiveProject Button"
2) WWDS directs user to "Edit My Active Project Page". System list Projects created by the User about to be edited.
3) User selects one of his/her project.
4) WWDS directs user to User's project page to be edited. User is directed to "Project Edition Page".
5) In the "Project Edition Page", User can either change Project's "Project Profile Picture", "Project Description", "Items Needed for The Project" and "Project Pictures". After User made changes, User clicks on "Save Edit".
6) WWDS send "Modified Project" to Admin.
7) Admin clicks on "Verify Edit Button".
8) WWDS list the "Modified Project" to approved to Admin
9) Admin select the "Modified Project" made by that User.
10) WWDS view the "Modified Project" to Admin
11) Admin clicks on "Approve Edit Button".
12) WWDS sends notification message to User.
13) User gets a notification message says "Editing is verified by admin" and shows display of the project. User clicks on "Ok" button.
14) WWDS redirect User to homepage.

Exit Condition : User successfully make edit on his/her projects.

UseCase : EditProfile
Participating Actors : User as Participant
Entry Condition: User should be logged in
User clicks on "Display Profile"

Flow of Events :
1) User enters his account page.
2)WDS system directs User to profile page. Display tabs such as "Edit Profile" button,
"Display Ongoing Donations" button, "Display My Finished Projects" button,"Display Donated Projects" button.
3) User clicks on "Edit Profile" button.
4)WWDS displays a form. In the form, WWDS ask about new password and new email address. It means
User can either his/her password or his/her email address.
5) User enters the new information to change his/her email address or to change his/her password. Then user clicks on "Accept Changes" button.
6)WWDS system changes his/her email address if he/she changed his/her email address. Same thing can be said for "chaging" the password.

Exit Condition: User must enters the new password as she/he wishes successfully.

Usecase Name : Login
Participating Actors : Initiated by User or Admin
Entry Condition : User must be Signed-Up to the WWDS.

Flow of Events :
1) User clicks Login button.
2) WWDS displays a Login page.
3) User fills out following credentials. “Username" and "Password"
4) WWDS checks those credentials.
5) WWDS closes the login form and reloads the WWDS page. "Start Project","Edit my project","Donate","Logout","Display Profile", "Search","Display Ongoing Donations","Display My Active Projects" enabled and Sign-in is disabled.
Exit Condition : User logins successfully.

Use Case : Logout
Participating Actors : Initiated by User or Admin
Entry Condition : User must be Logged to the WWDS.

Flow of Events :
1) User clicks Logout button while he/she is on any page.
2) System reloads home page of WWDS. "Sign-up" is enabled and "Start Project","Edit my project","Donate","Logout","Display Profile", "Search","Display On going Donations","Display My Active Projects" are disabled.

Exit Condition : User logouts successfully.

Use Case Name:Search

Participating Actor(s):Initiated by Visitor or User or Admin

Entry Condtion:The actor enters the WWDS.

Exit Condition:The actor sees the results of his/her search.

Flow Events:

1)The actor types a search keyword to search.
2)System searches this keyword both in project names and categories.
3)System displays the search results.

UseCase : SignUp
participating actors : Initiated by visitor
Entry Condition : Visitor should be in the website

Flow of Events :
1) Visitor clicks on "sing-up" button
2) System displays "sing-up" form
3) Vistor fills his/her credentials. Then clicks on "sign-up" button
4) System checks the sign-up form and sign the Visitor as User and WDDS system reloads the homepage.

Exit Condition : User signed-up to the system successfully

Use Case Name:Verify Project

Participating Actor(s):Admin-Initiates

Entry Condition:Admin must be logged in.

Exit Condition:Approve a project.

Flow of Events:

1)Admin clicks on "Verify Projects" button.
2)System displays a list of projects waiting for approval.
3)Admin clicks on a project to read it's details.
4)System displays the details of that project.
5)Admin approves the project by clicking on "Approve Project Button"
6)System closes the project's details and displays a message that saying "Project is Approved".
7)Admin clicks on "OK" button.
8)System closes the message and displays the list of waiting projects again.

Alternative Flows:

5.a)Admin rejects the project by clicking on "Reject Project Button".
6.a)System closes the project's information and displays a message that saying "Project is Rejected".
The rest is same.

Exceptions:

2.1)There are no projects waiting for an approval so the list appears empty.Use case ends here.

8.1)There are no projects left to approve so the list appears empty.Use case ends here.

Use Case Name:Verify Edit

Participating Actor(s):Admin-Initiates

Entry Condition:User should made an Edit on his/her project and send the "Modified Project" to admin.
Admin must be logged in.

Exit Condition:Approve a project.

Flow of Events:

1)Admin clicks on "Verify Edit" button.
2)System displays a list of projects waiting for approval.
3)Admin clicks on a project to read it's details.
4)System displays the details of that project.
5)Admin approves the project by clicking on "Approve Edit Button"
6)System closes the project's details and displays a message that saying "Project Edit is Approved".
7)Admin clicks on "OK" button.
8)System closes the message and displays the list of waiting projects again.

Alternative Flows:

5.a)Admin rejects the project by clicking on "Reject Edit Button".
6.a)System closes the project's information and displays a message that saying "Project Edit is Rejected".
The rest is same.

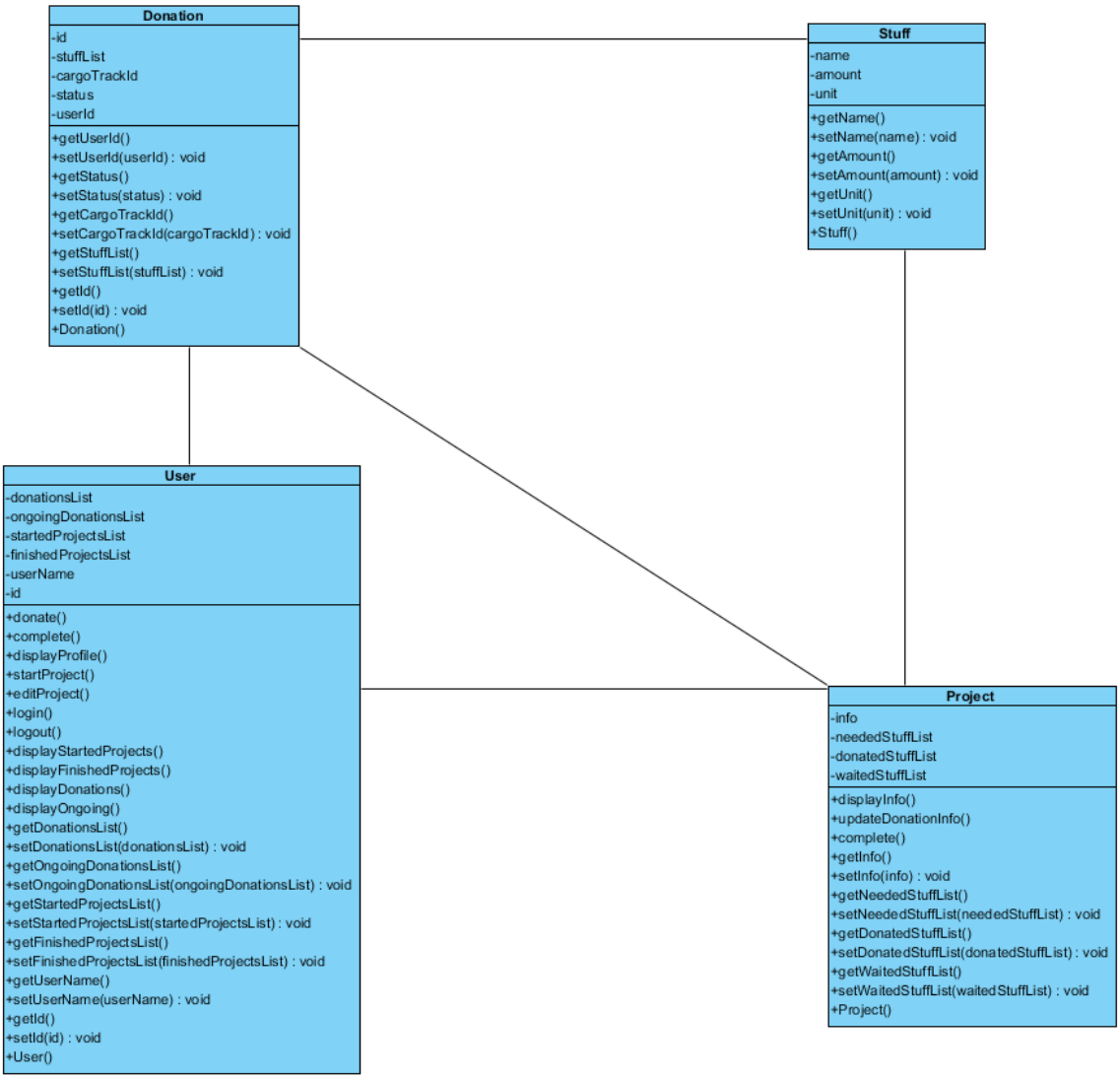
Exceptions:

2.1)There are no projects waiting for an approval so the list appears empty.Use case ends here.

8.1)There are no projects left to approve so the list appears empty.Use case ends here.

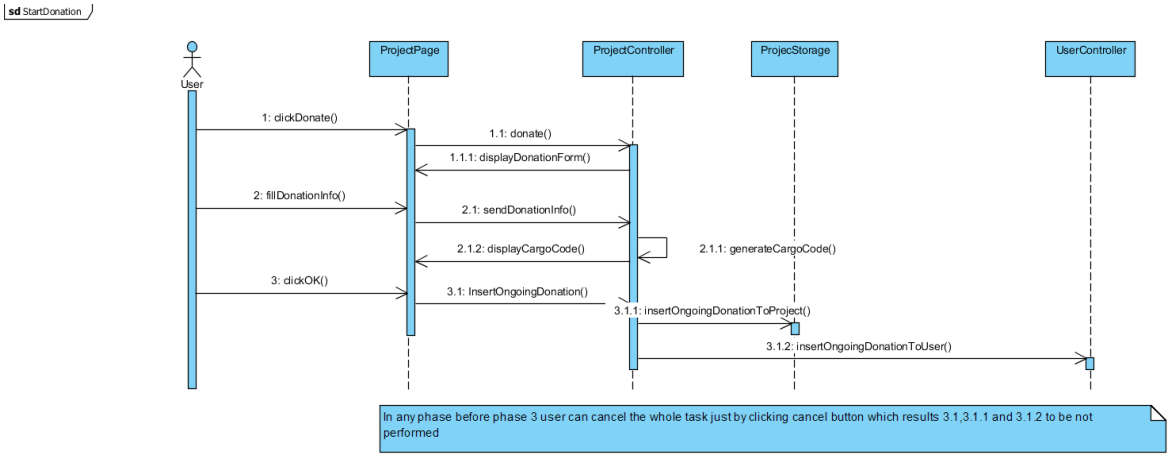
Object model

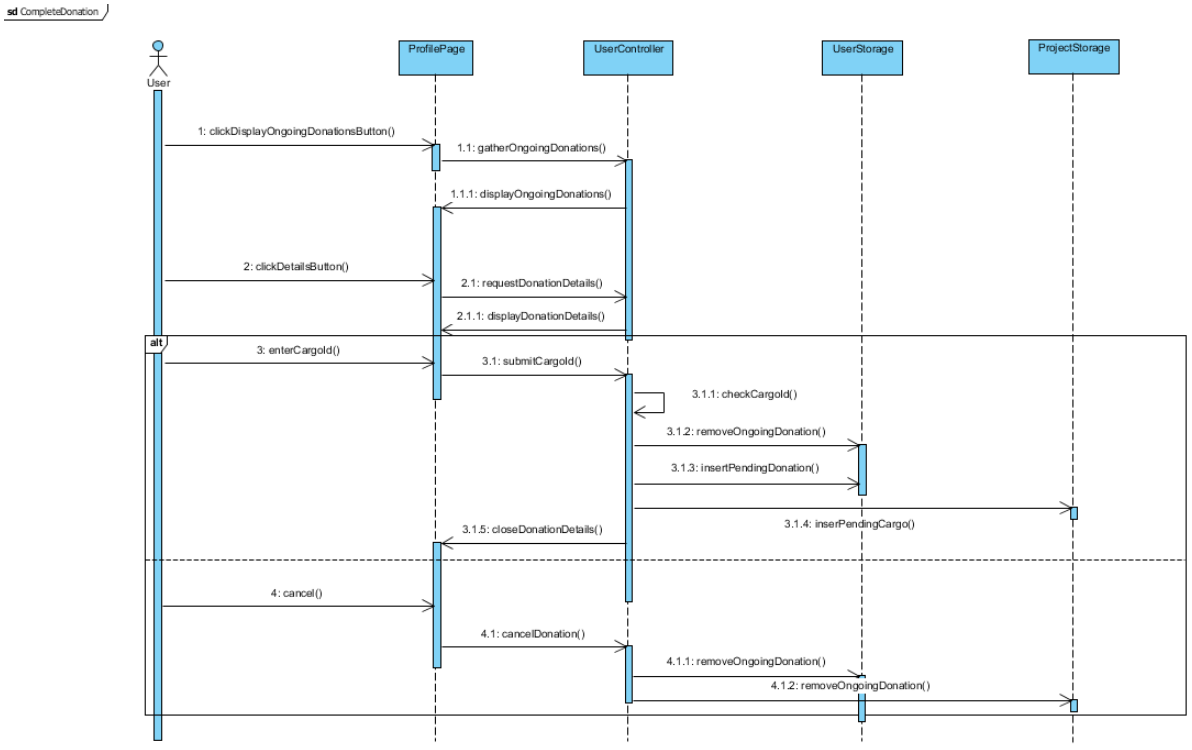
Class Diagram of the WWDS

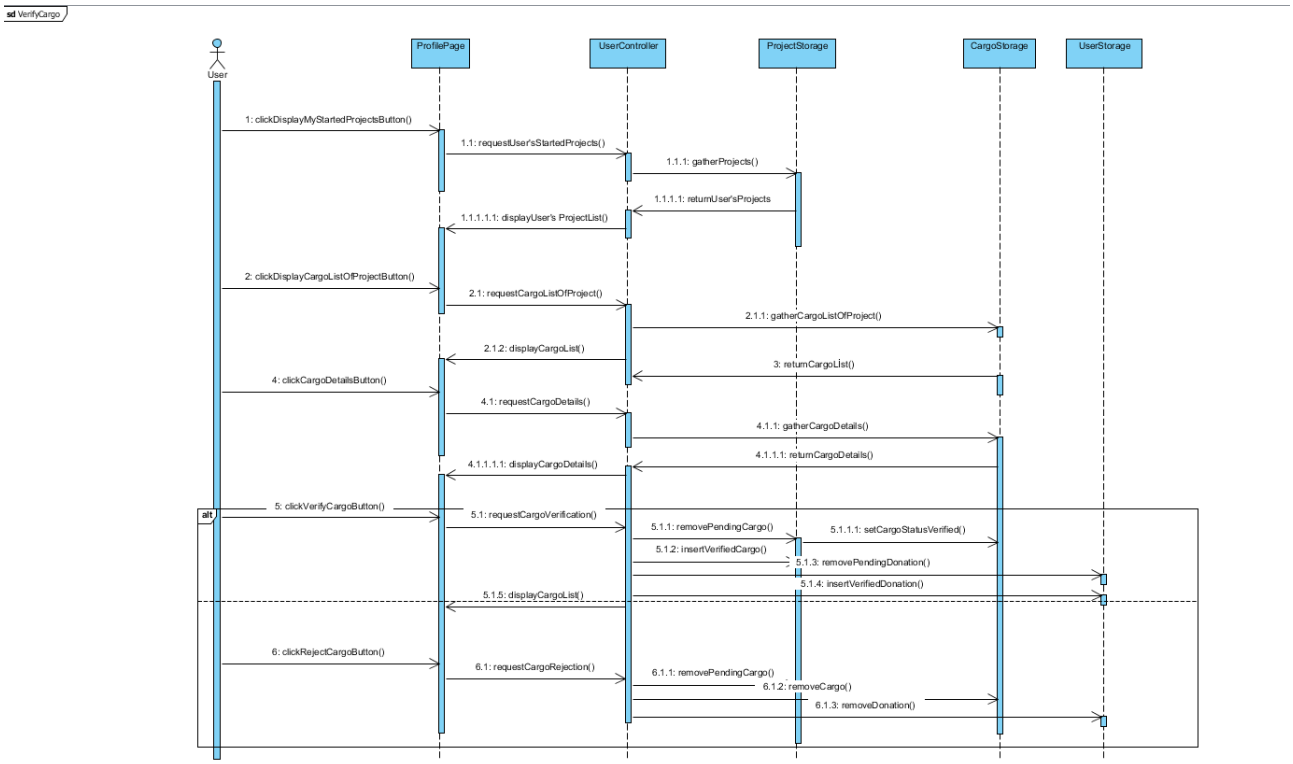


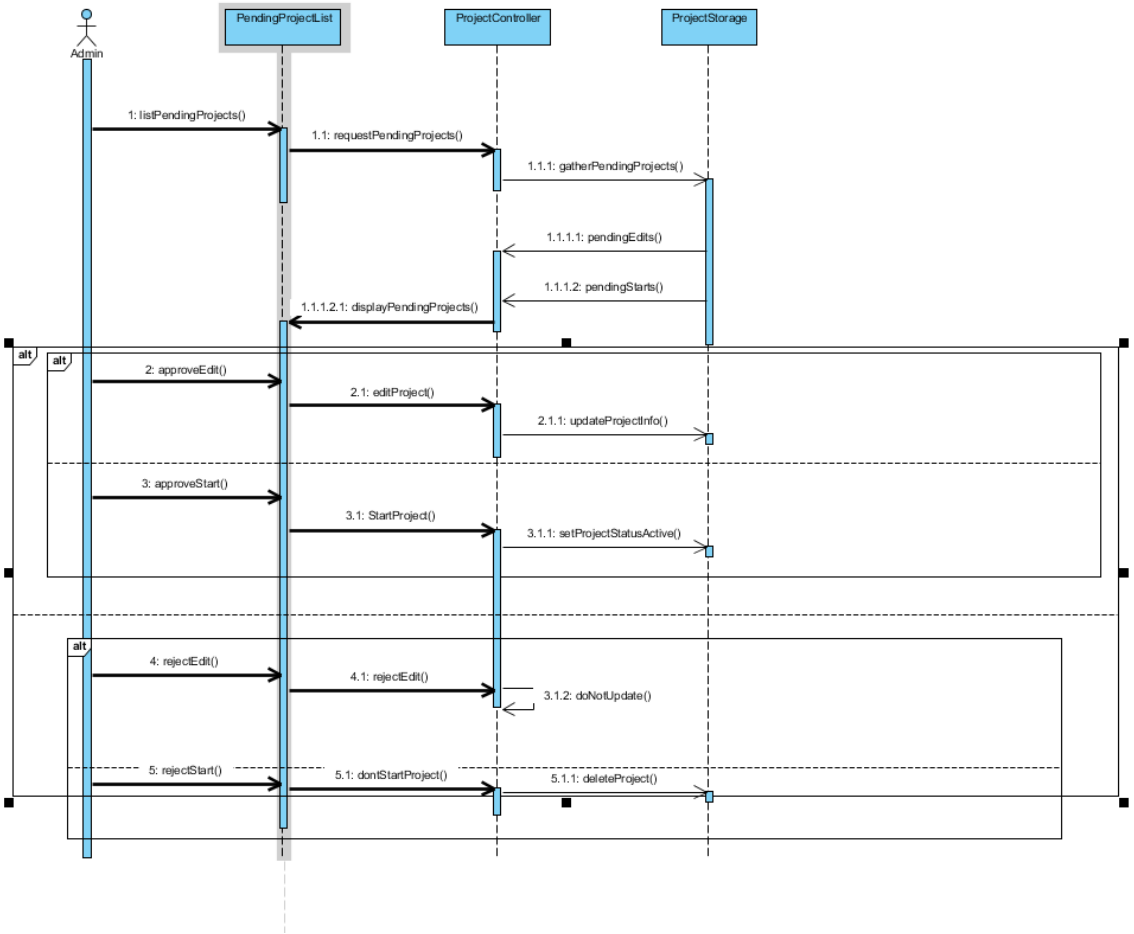
Dynamic model

Sequence Diagrams

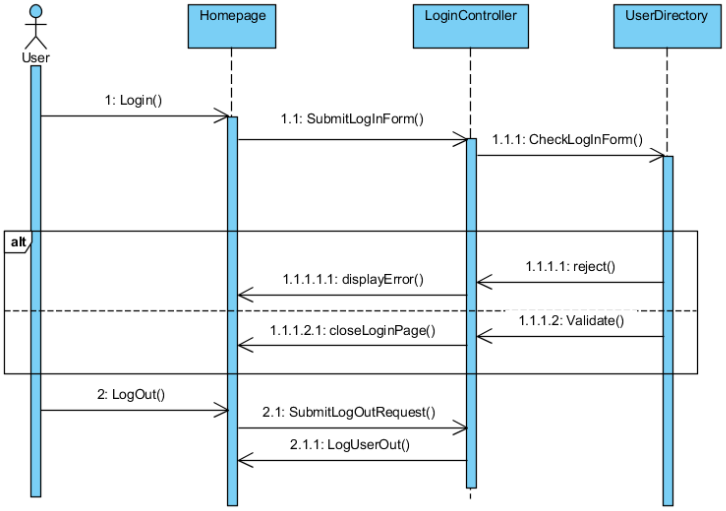




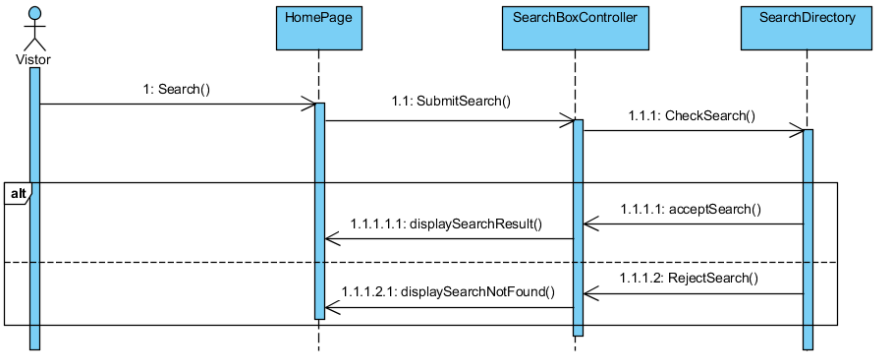

sd VerifyCargo
User
ProfilePage
UserController
ProjectStorage
CargoStorage
UserStorage
1: clickDisplayMyStartedProjectsButton()
1.1: requestUser'sStartedProjects()
1.1.1: gatherProjects()
1.1.1.1: returnUser'sProjects
1.1.1.1.1: displayUser's ProjectList()
2: clickDisplayCargoListOfProjectButton()
2.1: requestCargoListOfProject()
2.1.1: gatherCargoListOfProject()
2.1.2: displayCargoList()
3: returnCargoList()
4: clickCargoDetailsButton()
4.1: requestCargoDetails()
4.1.1: gatherCargoDetails()
4.1.1.1: returnCargoDetails()
4.1.1.1.1: displayCargoDetails()
alt
5: clickVerifyCargoButton()
5.1: requestCargoVerification()
5.1.1: removePendingCargo()
5.1.1.1: setCargoStatusVerified()
5.1.2: insertVerifiedCargo()
5.1.3: removePendingDonation()
5.1.4: insertVerifiedDonation()
5.1.5: displayCargoList()
6: clickRejectCargoButton()
6.1: requestCargoRejection()
6.1.1: removePendingCargo()
6.1.2: removeCargo()
6.1.3: removeDonation()


Admin
PendingProjectList
ProjectController
ProjectStorage
1: listPendingProjects()
1.1: requestPendingProjects()
1.1.1: gatherPendingProjects()
1.1.1.1: pendingEdits()
1.1.1.2: pendingStarts()
1.1.1.2.1: displayPendingProjects()
alt
alt
2: approveEdit()
2.1: editProject()
2.1.1: updateProjectInfo()
3: approveStart()
3.1: StartProject()
3.1.1: setProjectStatusActive()
alt
4: rejectEdit()
4.1: rejectEdit()
3.1.2: doNotUpdate()
5: rejectStart()
5.1: dontStartProject()
5.1.1: deleteProject()

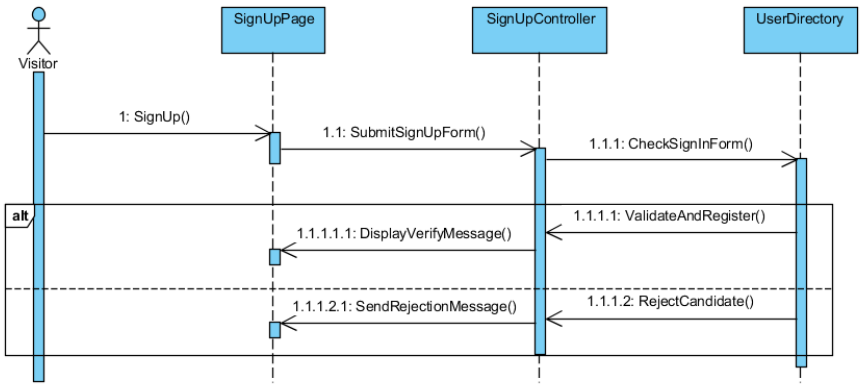
sd Logout



sd Search

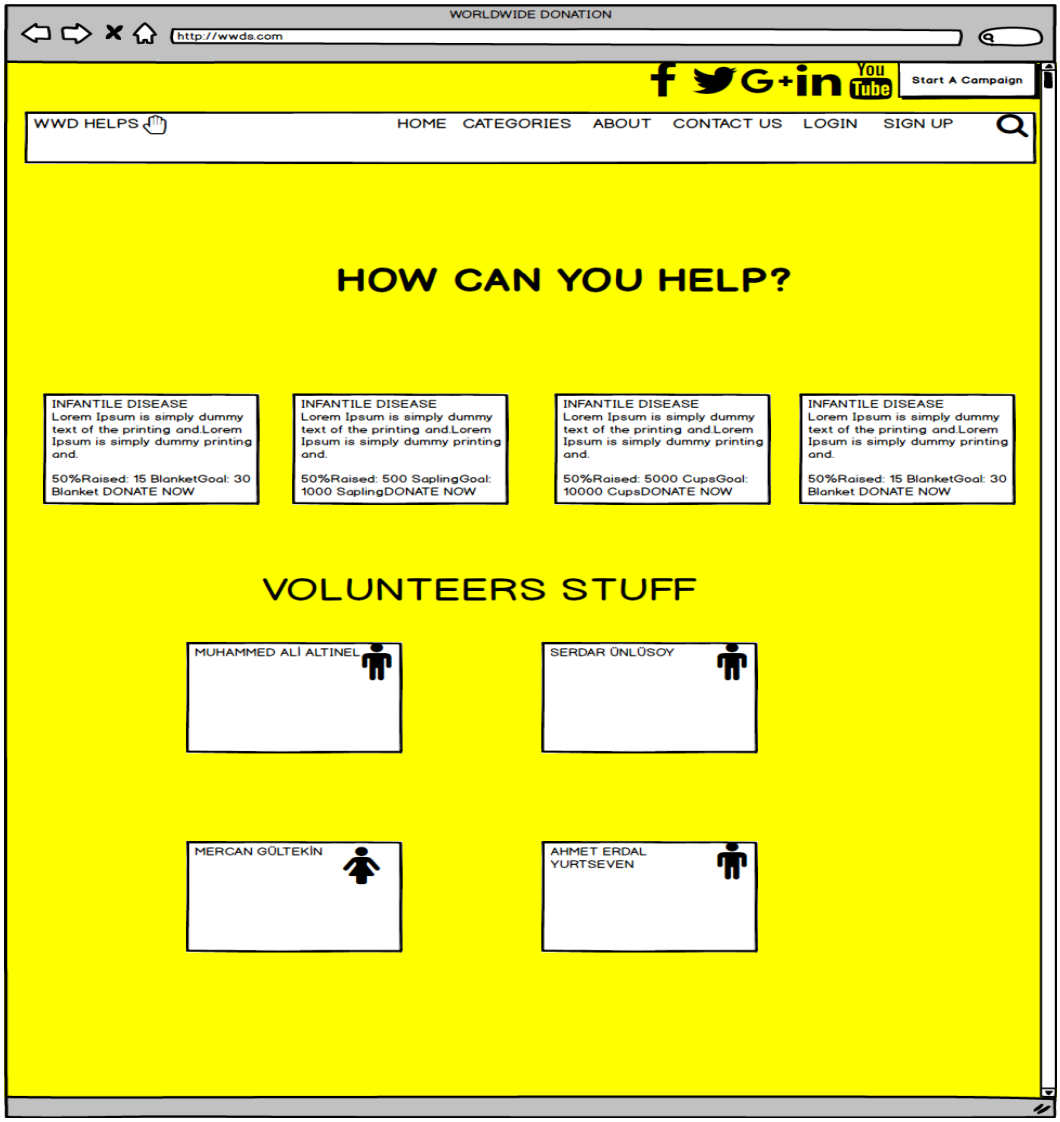


sd SingUp

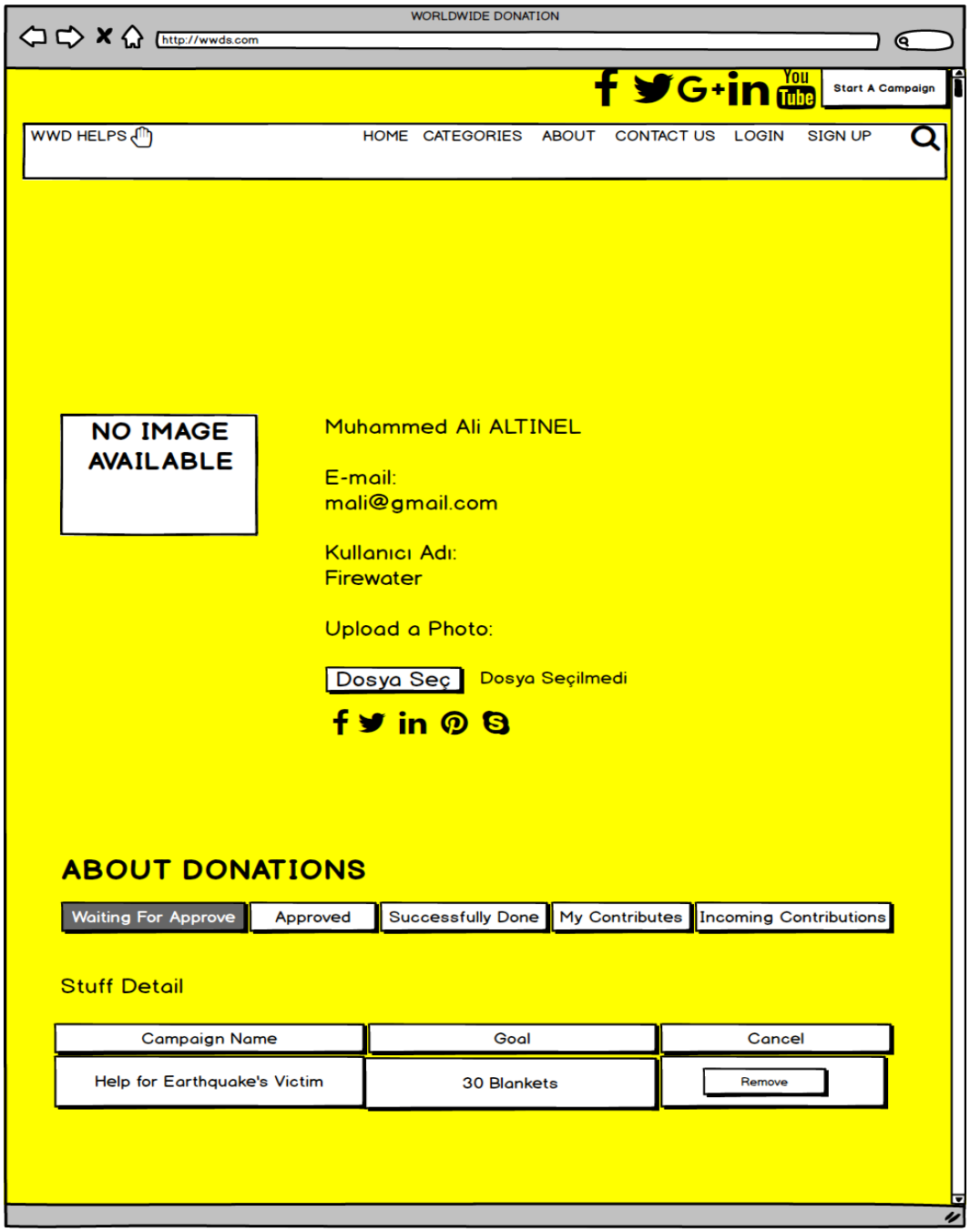


User interface—navigational paths and screen mock-ups

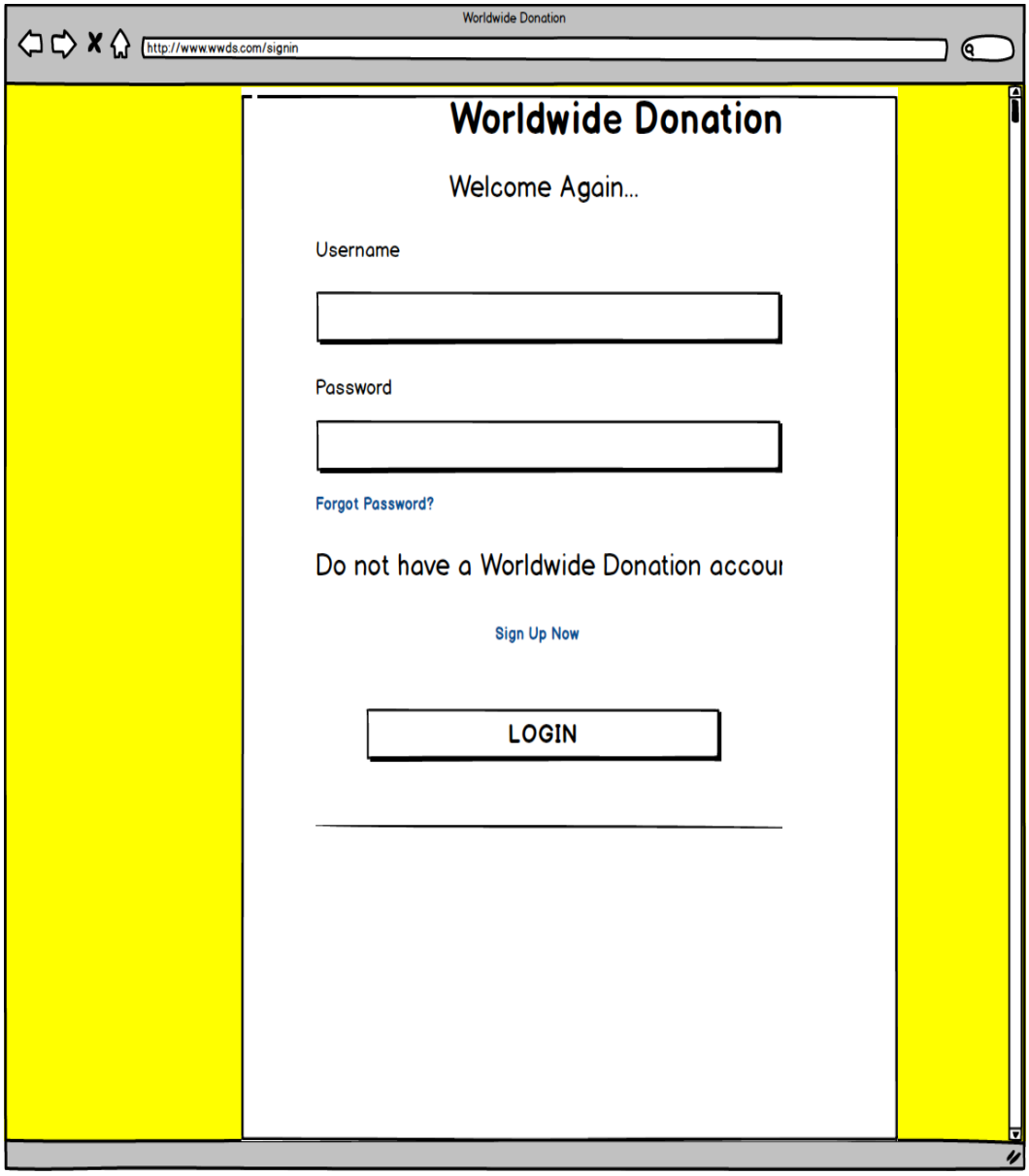
HOME PAGE



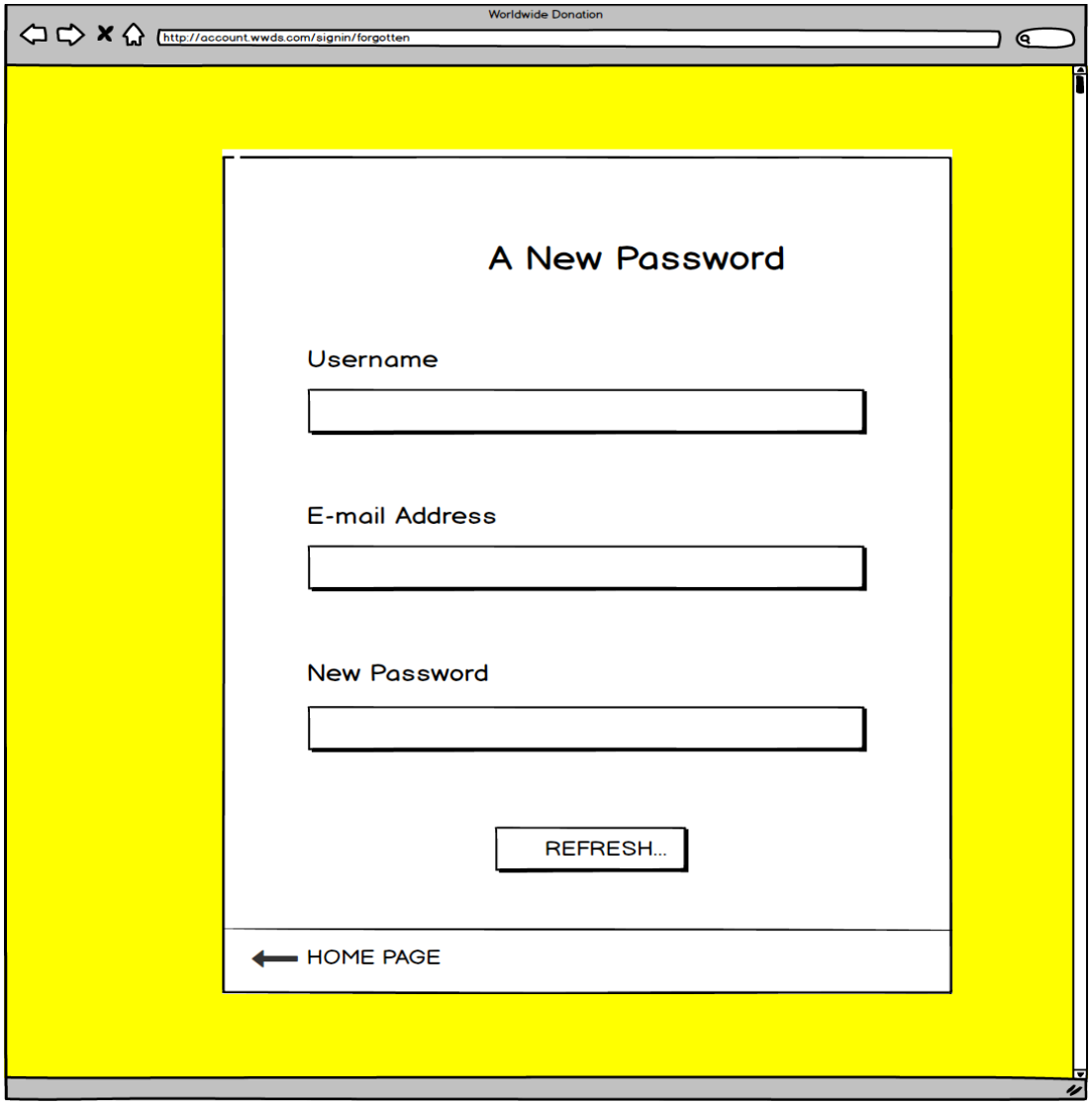
USER INDEX


WORLDWIDE DONATION
http://wwds.com
Start A Campaign
WWD HELPS
HOME
CATEGORIES
ABOUT
CONTACT US
LOGIN
SIGN UP
NO IMAGE AVAILABLE
Muhammed Ali ALTINEL
E-mail:
mali@gmail.com
Kullanıcı Adı:
Firewater
Upload a Photo:
Dosya Seç
Dosya Seçilmedi
ABOUT DONATIONS
Waiting For Approve
Approved
Successfully Done
My Contributes
Incoming Contributions
Stuff Detail
Campaign Name
Goal
Cancel
Help for Earthquake's Victim
30 Blankets
Remove

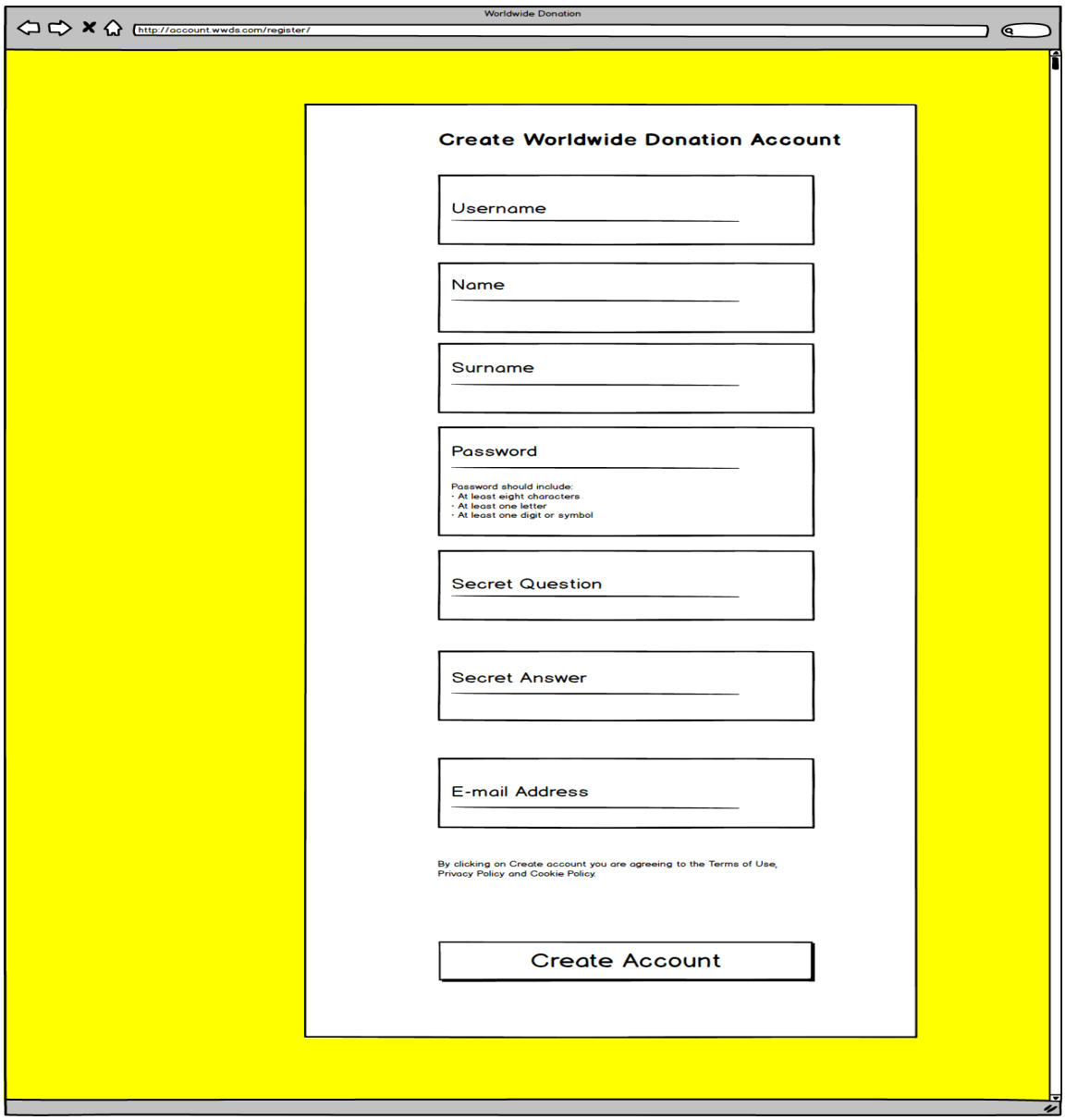
LOGIN PAGE


Worldwide Donation
http://wwwwwds.com/signin
Worldwide Donation
Welcome Again...
Username
Password
Forgot Password?
Do not have a Worldwide Donation accou
Sign Up Now
LOGIN

LOGIN FORGOT PASSWORD



SIGN UP PAGE



3.5. Project Schedule

4. Glossary

User Types

Admin :It is a "User Type" able to use functions such as "Verify Projects" and "Verify Edit".

User : It is a "User Type" which are actual registered users. They can use main functions such as "Create Project","Edit Project","Donate", "Display Profile Page", "DisplayDonatedProjects", "DisplayOngoingDonations","DisplayMyFinishedProjects", "DisplayMyActiveProjects", "Search", "Display Project Information"

User Type : ystem contains three type of users. This is used to classify different Users.

Visitor : It is a "User Type" can use "Display Project Information" and "Search" functions.

EditMyActiveProject

Edit My Project button :Directs User to "Edit My Active Project Page"

Edit My Active Project Page :It is a page contains list of links to Project Pages to be edited

Project Profile Picture :Profile picture of project

Project Description : Brief description of the Project

Items Needed for The Project :Items required for that Project

Project Pictures :Pictures of the Project. Can contain more than one picture.

Save Edit :It is a button, sends the Modified Project Profile to Admin.

Approve Changes : It is button will be used by Admin and when Admin clicks on "Approve Changes", Modified Project will be uploaded

Modified Project :When a project's information (Profile Pic, Project Description etc.) changed, project is modified.

DisplayMyFinishedProjects

My Finished Projects button : System direct User to "Display my Finished Projects Page"

Display my Finished Projects Page :It is a page contain list of projects started by "User" and ended successfully

DisplayMyActiveProjects

Display My Active Projects button :System direct User to "Display My Active Project Page"

Display My Active Project Page It is a page contain list of projects started by "User"

Use case : Display Profile Page

Display My Profile Page button : Direct user to User's profile page

User's Profile Page : It's user's personal profile page. Contains links to pages such as "Display Donated Projects Page", "Display Ongoing Donations Page", "Display My Finished Projects Page"

Edit Profile

Edit Profile Button :Directs User To page where User edits his/her profile

Accept Changes Button :When the button is clicked, User verify changes he/she made. System reset User's either password, or username or both.

Login

Login button :This button display Log-In Form

Username : Username of the User. Required for Log-In to system.

Password :Password of the User. Required for Log-In to system

Login page : It is a page where User enter his/her Username and Password to be verified by the System.

SignUp

Sing-Up Button :Button display Sign-Up form to Visitor.

Sing-Up Form :It is a form which Visitor will to register to a system. Username, passowrd should decided by the Visitor and also Visitor should enter his/her email address.

Logout

Logout button :Button used for logging out from the system.

Verify Project

Verify Projects button :Display list of projects recently created and waiting to be approved by the Admin

Approve Project Button : Verify the project created and send to Admin by User

Verify Edit

Verify Edit Button :Display list of "Modified Project" waiting for approval

Approve Edit Button :Approves the "Modified Project" and reupload the project to the System

5. References

1. Bruegge B. & Dutoit A.H.. (2010). *Object-Oriented Software Engineering Using UML, Patterns, and Java*, Prentice Hall, 3rd ed.