Helping Displaced LGBTQ+ Teens with Relocation Aid

(Software Requirements Document)

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Creative Team:

Jeffrey Epstein Didn't Compile Himself

Authors:

Logan Whitfield

Thomas Knepshield

Heather Holden

Gene Pressinger

Introduction:

We created this app with the purpose of assisting those who find themselves in difficult and sometimes impossible situations. We have created a tool that can help people relocate to a safe facility if they have been kicked out of their primary residence or have otherwise had to change living arrangements due to adversity caused by the intolerance of others toward the LGBTQ+ community.

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Purpose:

The purpose of this project is to make an app to assist people in getting to a designated safe space if they have to leave their home to escape intolerance and/or prejudice toward being LGBTQ+.

Document Conventions:

Bolded words denote a section change.

Intended Audience:

People who identify as LGBTQ+ who have been kicked out of their primary residence and in need of shelter and/or support.

Definitions/Jargon:

Safehouse firm refers to the location of the residence for whom this project is intended to help.

Client refers to the LGBTQ+ person in need of assistance.

Project Scope:

The scope of this project is confined to the computer programming course it has been assigned in.

Technical Challenges:

Adding the ability to purchase flight tickets would require more time and a paid subscription so this will not be added to the project.

References:

SkyScanner API used through RapidAPI.

Overall Description

Product/Project Features:

This project will help the user to find flight data to the safehouse firm. Purchasing of flight tickets will be done externally by the firm. Also, users will be able to create an account collecting data needed to book a flight. Users can save flights to be booked by the safehouse firm.

User Characteristics:

People who identify as LGBTQ+ who have been evicted from their primary residence due to their status as LGBTQ+.

Operating Environment:

This program will be used anywhere within the United States of America.

Design and Implementation Constraints:

Due to the cost and difficulty of certain APIs, the purchasing of plane tickets will not be a feature.

Assumptions and Dependencies:

Assume users have skills to fill out data fields, an email address, are truthful to their situation, and have a mobile phone with cellular service or WiFi access.

Functional Requirements

Primary:

Account creation gathering an email address, phone number, name, date of birth, gender, current location, as well as the information gathered will help with verification of the client and give the safehouse firm the ability to arrange travel for the client.

Secondary:

Technical Requirements

Operating Systems/Compatibility:

This application currently can run on any device capable of accessing the internet.

Interface Requirements:

User Interface:

The user interface is a series of text box options through which the user will navigate to login or create a user, search or save a flight, and to change the users personal information.

Hardware Interface:

This application is run through google cloud database servers that host a mSQL database and the application makes calls to skyscanner API as well as the google maps geocoding API.

Software Interface:

This application is programmed in Java and utilizes mySQL syntax, JSONobjects, and JavaFX.

Communications Interface:

This application communicates with the database via a connection with google cloud database instance using Java database connection (aka JDBC). The API's communication is handled with JSONobjects.

Nonfunctional Requirements

Performance Requirements:

The software will be optimized for various computers and mobile devices. The intended target environment (platform, OS, etc.) may change as development progresses.

Safety/Recovery Requirements:

Safety is the utmost priority. All user information is confidential and will remain private for safety concerns. Passwords will be encrypted.

Security Requirements:

A username and password will allow individuals to access the program. The password will be encrypted using a custom algorithm and key generation method by the developers of this project.

Policy Requirements:

Users of this program are not allowed to reverse engineer or alter any parts of this software, it's libraries, and dependencies. Software must be used for its intended use only, stated by this document.

Software Quality Attributes:

Availability:

Users will be able to access the program on and after the delivery date.

Correctness:
All information and data provided by the software will be made as accurate as possible.

Maintainability:

Due to the nature of the project, there are no plans for updating after its release.

Reusability:

This program has the ability to be reused with modification in the future.

Portability:
This program has the ability to be used in other ways not mentioned in this document with modification in the future.

Process Requirements:

Development Process Used:

Agile Development

Time Constraints:

Due date for the project is April 30, 2021.

Cost and Delivery Date:

Cost: $0.00

Delivery Date: End of the Semester

Honor Code:

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Academic Integrity Pledge

I HAVE ABIDED BY THE UNCG *Academic Integrity Policy* ON THIS ASSIGNMENT.

Student's Signature: Logan Whitfield, Thomas Knephsield, Heather Holden, Gene Pressinger
Date: March 14, 2021

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My words and actions will reflect Academic Integrity.

I will not cheat or lie or steal in academic matters.

I will promote integrity in the UNCG community.

Student's Signature: Logan Whitfield, Thomas Knephsield, Heather Holden, Gene Pressinger
Date: March 14, 2021