

Use Case: Calculate How Long Before Homeless

Primary Actor: General User

Goal in Context: To calculate how long the amount of time the user can go without earning any money before they go bankrupt, meaning they would become homeless (since they cannot afford rent).

Preconditions: The user submitted their savings and monthly expenses information.

Trigger: The user presses the submit button, submitting their savings and monthly expenses information.

Scenario:

1. The general user navigated to the Homeless Predictor website.
2. They enter their savings and monthly expenses information.
3. The user presses the submit button.
4. The algorithm calculates how long the user can go after losing a job before becoming homeless.
5. The user views output on the website, which states how long it would take for them to become homeless if they lost their job.

Exceptions:

1. User presses submit button without entering data: User enters data and presses submit again.
2. User enters invalid data by putting characters where numbers should be and submits it: User fixes data and resubmits it.

Priority: Essential, must be implemented (main purpose of the application)

When available: By Completion of Assignment 2C

Frequency of Use: Whenever a user navigates to the website

Channel to Actor: Via the website interface

Secondary Actor(s): Developer

Channels to Secondary Actor(s):

Developer: Source code

Open Issues:

1. Should I account for child support and/or expenses for children?

Use Case: Find homeless shelters in a county in New Jersey

Primary Actor: General User

Goal in Context: To generate and print out a list of homeless shelters in a county in New Jersey.

Preconditions: The user selected and submitted the county in New Jersey they are from.

Trigger: The user presses the submit button, submitting the county in New Jersey they are from.

Scenario:

1. The general user navigates to the Homeless Predictor website.
2. The user enters the county in New Jersey they are from.
3. The user presses the submit button, submitting the data.
4. The algorithm retrieves a list of homeless shelters from that country from the database.
5. The user views output on the website, which is a list of homeless shelters in their county in New Jersey. The output also encourages them to volunteer and donate.

Exceptions:

1. User presses submit button without selecting a county: User selects country and presses submit again.

Priority: Important, high priority for implementation

When available: By Assignment 2D

Frequency of Use: Whenever a user navigates to the website

Channel to Actor: Via the website interface

Secondary Actor(s): Developer

Channels to Secondary Actor(s):

Developer: Source code

Open Issues:

1. Should I include the contact information of the homeless shelter in the output?
2. Should I expand the county locations to other states?