The University of Puerto Rico at Mayagüez

Department of Engineering

Software Requirements-INSO 4115

Progress Report #2

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User Stories

- An unregistered user can visit and browse the home page.
- An unregistered user can register into the app as:
  - A customer,
  - A donor,
  - Or both
- A registered user can:
  - Create a profile.
  - Log in with an email and password.
  - Make their donations available.
  - Make a request for the available donations.
  - Search for specific donated articles by using specific parameters.
  - Create a route from their position to the donor's position.

Personas

Affected Persona

Age: 44

Marital status: Married

Children: N/a

Undergraduate study: Political Science

Occupation: Senator

Location: Guaynabo, PR

Income: $70,000

Hector Sanchez

Senator

Bio

Hector is a second-term Senator in Puerto Rico.

Concerns about Disaster Aid Distribution

- The government should be responsible for the aid distribution.
- Donors are causing chaos distributing aid without a centralized distribution system.

Technology & Information Sources

- Multiple phones.
- Uses social media only to boost his image, especially in election years.

Affected Persona

Age: 54

Marital status: Married

Children: 4

Undergraduate study: Culinary Arts

Occupation: Chef/Restaurant Owner

Location: San Juan, PR

Income: $50,000

Luis Alvarado - Donor

Bio

Luis works as the Executive Chef in his restaurant in San Juan, PR. He and his wife opened the restaurant over 20 years ago. During the aftermath of Hurricane Maria, Luis served free food to thousands of people, even delivering it himself to people outside the metropolitan area. His restaurant also served as a hub for the collection of donations

He works alongside his wife, and two other sons, in his restaurant. Luis and his family are also known for their involvement with charity organizations.

Concerns about Disaster Aid Distribution

- Luis wants to help those affected, but finds himself unaware of their needs.
- He is questioning the efficiency of the government in the aid distribution.
- Prefers to deliver aid without third parties.

Technology & Information Sources

- Has been using the same phone forever.
- Only uses social media to keep in touch with old friends and share pictures of his grandchildren.
- Gets his news from the local news channel.

Affected Persona

Age: 25

Marital status: Single

Children: N/a

Undergraduate study: Arts & Education

Occupation: Elementary School Teacher

Location: Ponce, PR

Income: $20,000

Julia Rodriguez

Affected by the earthquakes in southern Puerto Rico

Bio

Julia is an Arts teacher in Ponce. She lives with her mom and 2 younger brothers. Her house suffered structural damages due to the earthquakes and was forced to sleep in her car before going to a local refugee. Julia was not prepared with the necessary supplies and needs donations. Her place of work also suffered major damages and is threatening her savings account.

Julia also organized a local camping area where fellow citizens affected by the earthquakes could gather and sleep during the aftermath of the earthquakes. Also, she admits being psychologically and emotionally affected by the earthquakes; has trouble sleeping.
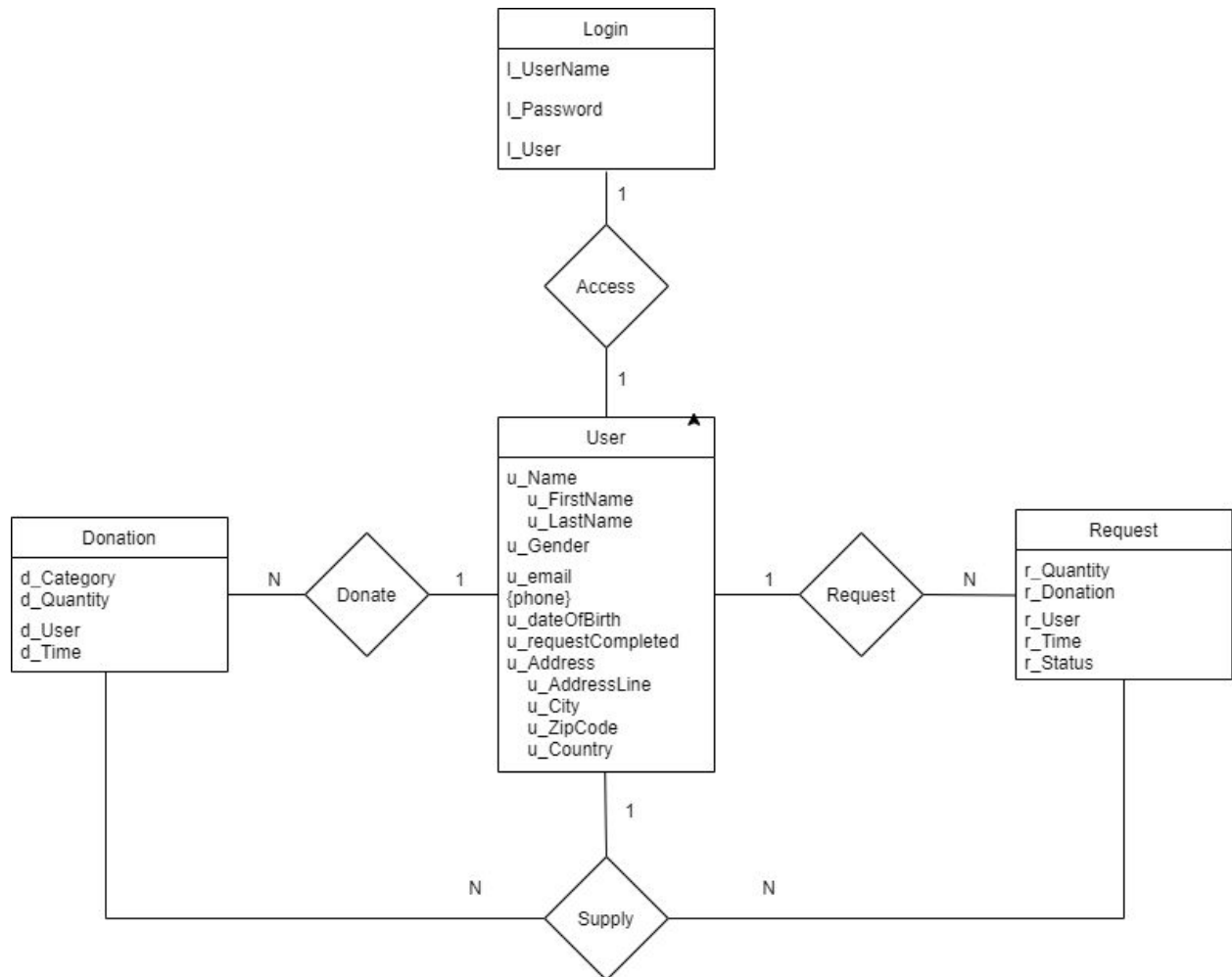
Concerns about Disaster Aid Distribution

- Resources are not being distributed to isolated areas.
- Does not believe the government is doing a good job in the distribution of resources.
- Donors are not reaching isolated areas.

Technology & Information Sources

- Multiple Apple devices.
- Uses an iMac at home and spends around 3 hours per day actively browsing the internet.
- Mostly browses on her iPad at home.

- Heavy user of social media.
- She gets her news from social media.

ER Model

Rest API
A Rest API was developed in Scala with a base code for the initial phase.

Dependencies:
- Akka Actor
- Akka Stream
- Akka Http
- Postgresql
- Slick

Functionality:
- Connection with the Postgres database.
- A route to get all the users.
- A route to get a specific user by id.
- A route to create a user.
- A route to update a user.
- A route to delete a user.