Observa – Milestone 1 Report

Team Members: (*Team 5)*

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1. **Analyzing User's Requirements and Task Description:**
   - Through user scenarios:
     - I am Abdallah, I work till late hours, so I want to view the camera when I am away, so that I can see what/who is at my door at any time.
       - Receive the stream on the server.
       - Stream Camera from bell app.
       - Send the stream to the front end.
       - Show the received stream to the user.
     - I am Ahmed, I want to get notified with the name of the visitor, so that I know who is at the bell without opening the camera.
       - Facial Recognition of visitors.
       - Database with saved visitors faces.
       - Add database to model.
       - Upload images of new visitor faces.
       - View current visitor's name in dashboard.
       - Send notifications through the web.
     - I am Ayman, I work multiple jobs, so I am a bit forgetful. I want to change my email address and password because I forgot them.
       - Add settings page to edit the user info.
       - Add API requests for updating user info.
     - I am Said, I want to see who the last people who visited me are because I am sometimes busy and didn't see who was at my door.
       - Add visitors page to show the known visitors history.
     - I am Mohammed, I don't want to enter my email and password every time I login because it is repetitive and tiring.
       - Generate an authentication token.
       - Add remember me option.
       - Save the authentication token to a cookie.
     - I am Alaa, I want no one to be able to view my data as it invades my privacy.
       - Add authentication layer for each user for all requests.

- Create login and signup pages.
- Add login to bell app using api key.
- Scan API key using QR code.
  - I am Mustafa, I am a 60-year-old senior. I want to have an easy way to access the camera, visitors, etc. because I am a bit tech illiterate.
    - Create a navigation bar for the users.
    - User-manual for the website.
  - I am Ebrahim, I am a person who gets confused and doesn't like complicated things. I want the application interface to be simple and beautiful.
    - Create wireframe designs for website pages.
    - Implement the pages designs with HTML, CSS, JS.
    - Implement the pages designs using VueJS.
    - Test the UI and UX of the pages.

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2. Data Gathering:

In the process of gathering data for our Observa Smart Doorbell System project, we employed a combination of surveys and collaborative teamwork. The data collection strategy involved two primary methods:
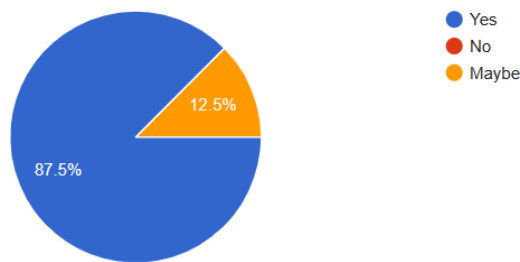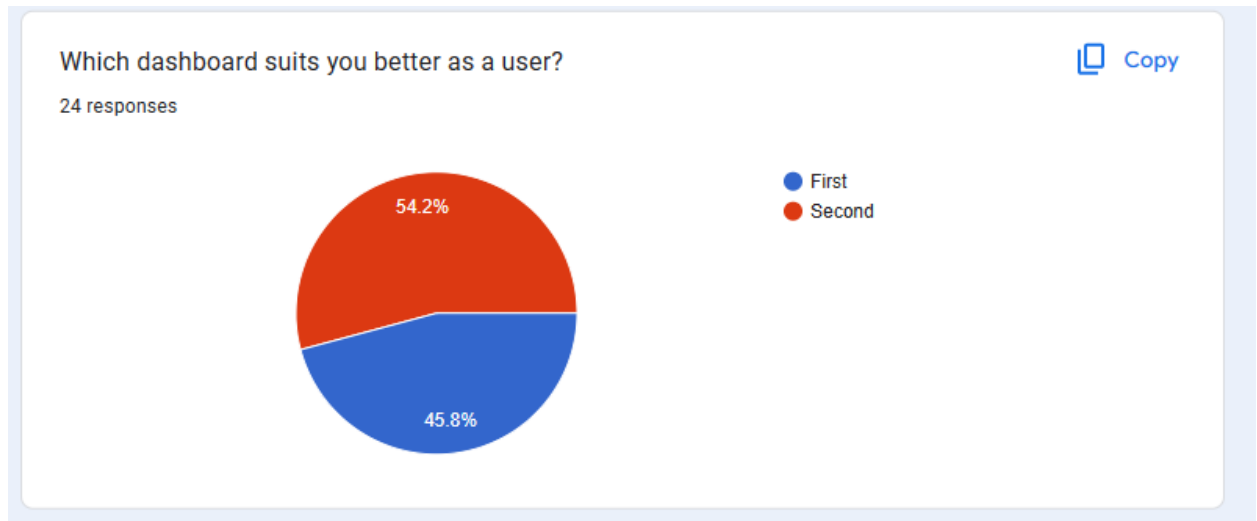
- Surveys:

We conducted surveys to systematically gather insights from potential users, aiming to understand their preferences, expectations, and specific requirements regarding home security systems. The survey responses provided valuable qualitative and quantitative data, informing the design and functionality aspects of the Observa system.

Do you believe the name 'Observa' effectively describes the application's purpose and functionality?

24 responses

- Yes
- No
- Maybe

87.5%

12.5%

Which dashboard suits you better as a user?

24 responses

- First
- Second

54.2%
45.8%

- Team Collaboration:

Internally, our team engaged in collaborative discussions and workshops to leverage the collective expertise and diverse perspectives within the group. Through brainstorming sessions and collaborative work, we were able to extract valuable insights, identify key challenges, and establish consensus on various design and functionality aspects of the smart doorbell system.
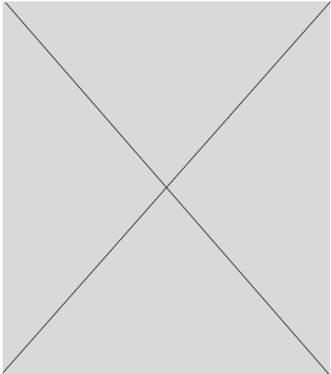
3. **Prototyping:**
   - In regard to the UI/UX design process, we first designed the wireframes, then came up with UI Design, then implemented some unfinalized front-end codes and got feedback from potential users, so we will work on the enhancements before the next milestone.

   - **Wireframing:**

   The initial phase involved the creation of wireframes. Wireframes are low-fidelity, basic representations of the user interface layout and structure. They serve as a blueprint for the design, focusing on functionality and content placement without delving into visual details.

Log In page:

Welcome to OBSERVA

enter email address or phone number

enter password

remember me

Forget password?

log in

don't have an account? Sign Up

Help?   **contact us**   **about us**

Dashboard (where Livestream appears):

≡   Observa   Notifications   profile img
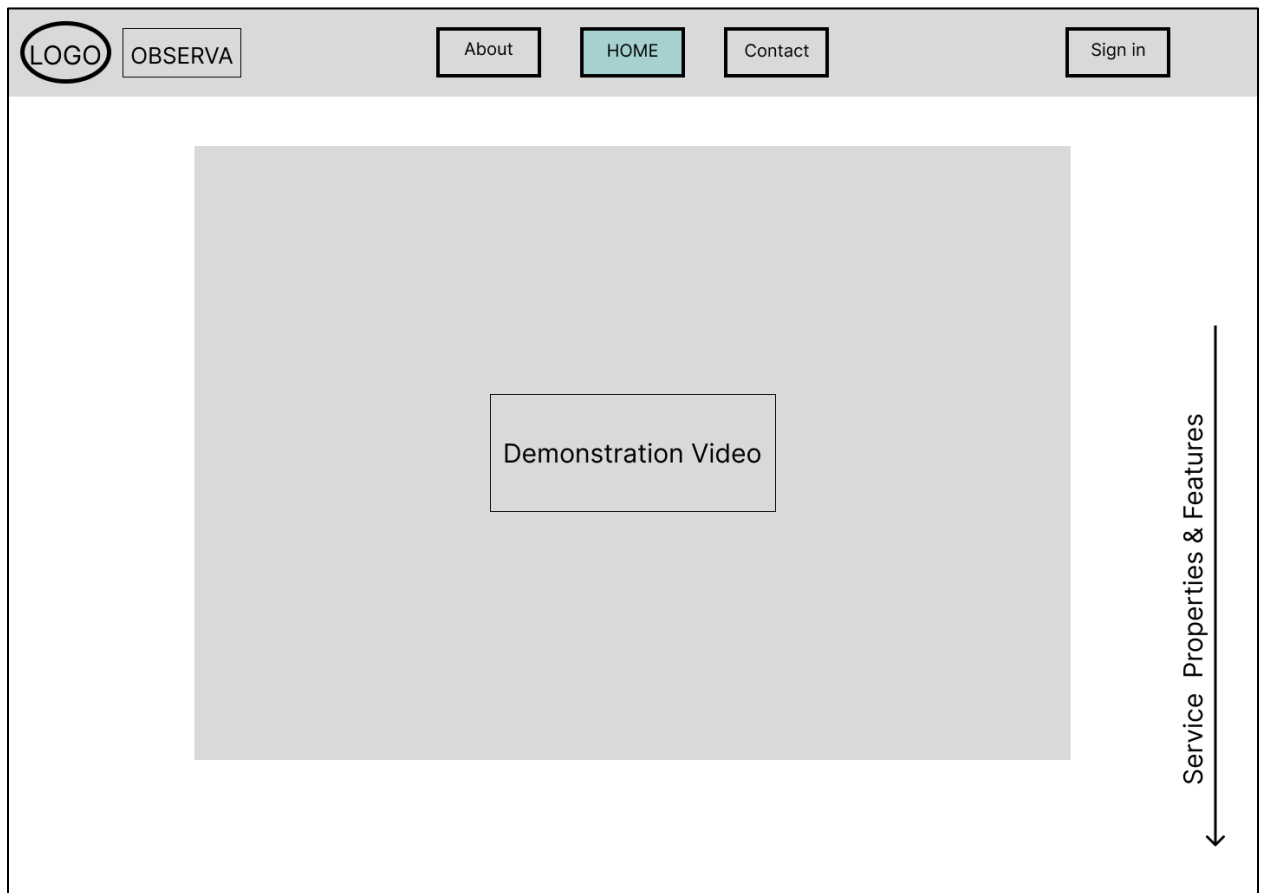
Bell Stream

Overview

`Visitors

Account

Log out

Visitors

Name	Relation

Home page (has How-To demonstration video):

-   **UI Design:**

Building upon the wireframes, the next step was the UI design. This phase focused on adding visual elements to the wireframes, such as color schemes, typography, and imagery. The goal was to create a visually appealing and cohesive design that aligns with the brand identity and user preferences.
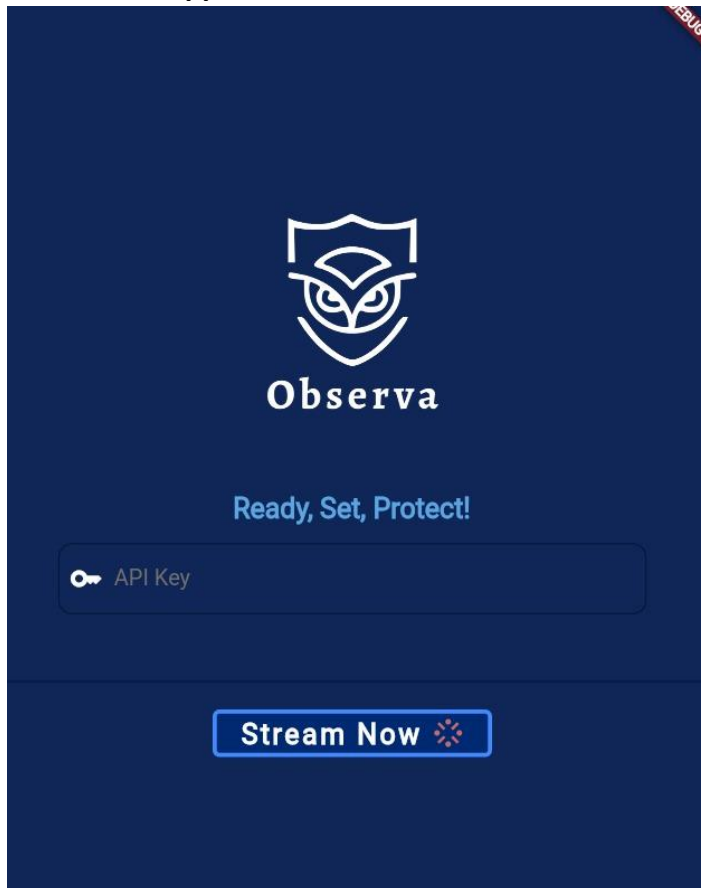
Home page:
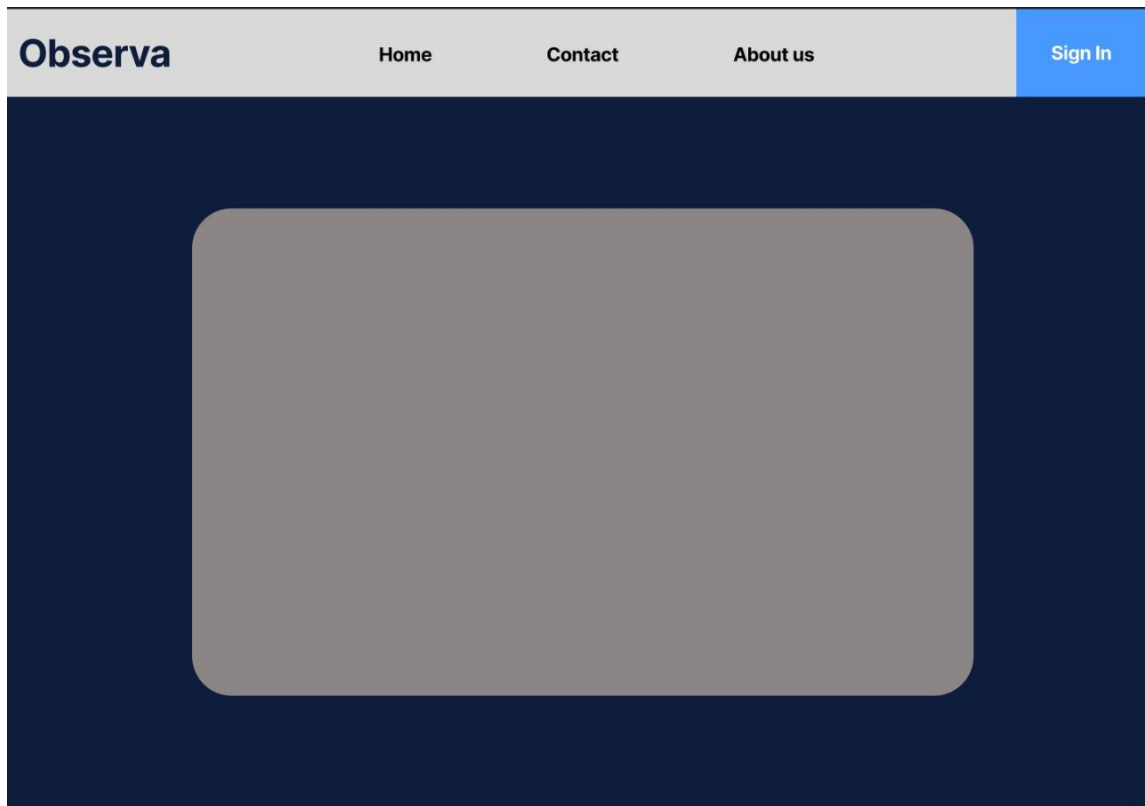
Peoples Page
W

Log In/ Sign Up

Dashboard

Mobile Bell Application:

- **Iterative Testing and Feedback:**
  - ➢ The UI design needed a lot of testing and feedback from potential users, so this is not the final design, and we will conduct more surveys to fulfill all requirements that satisfy user's experience and expectations.