Project Title: Cooking made easy!

Team 25(DexLab)
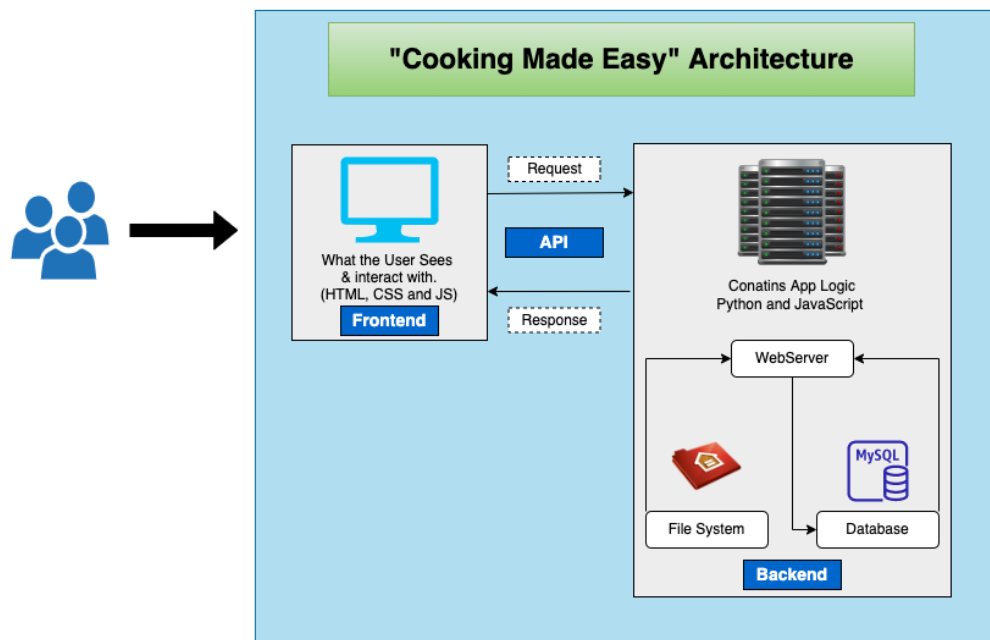
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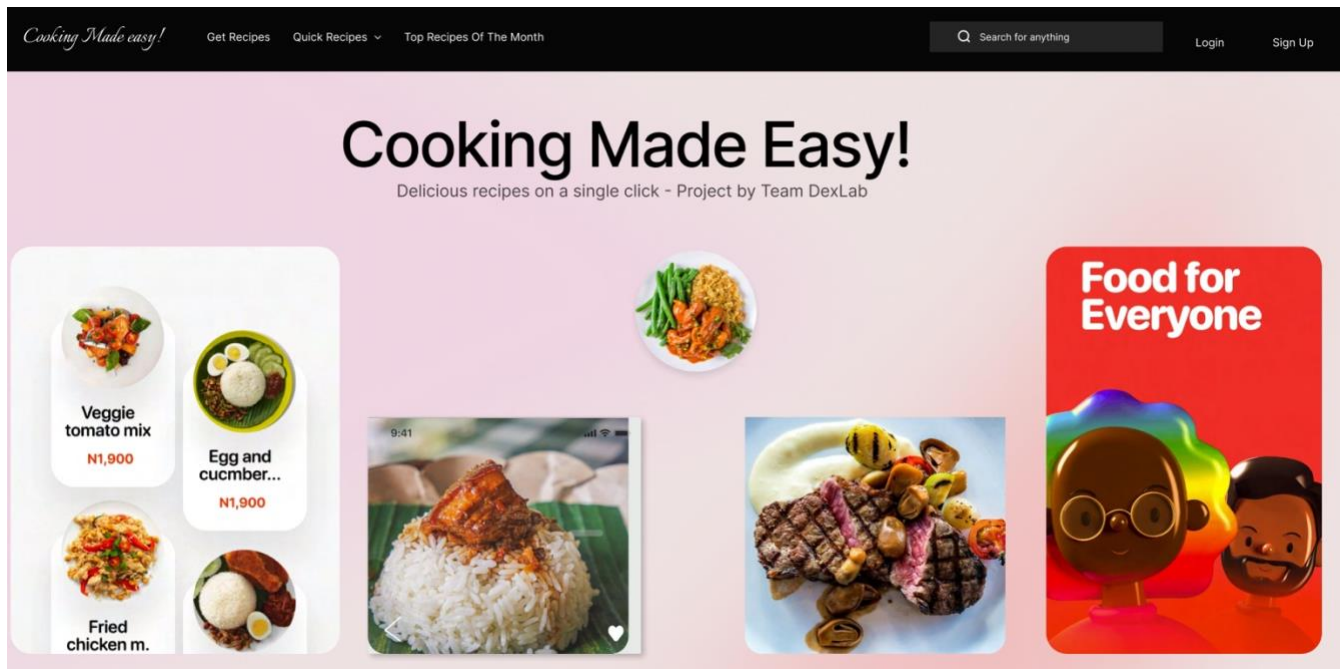
Part 1 Web App Architecture:-

1. We will store our data on cloud server mainly Heroku's **ClearDB MySQL**.
2. **Python** will be the primary language for backend of our webapp.
3. The database will be password protected and can only be **accessed by the admin**. We will be using **secured APIs** for making any modifications by the users.
4. Frontend will be developed using the combination of **HTML, CSS, and JS** and to implement the aesthetics of the app we will use bootstrap.
5. We are planning to deploy our system on **Heroku** and also exploring **Ngrok** to be used as a hosting service.
6. We are planning to allow the users login in our system and explore different recipes. We are also allowing to apply filters which will personalize the interface for them, and they can also mark any recipe favorite which can viewed by only one click when they return to application. To make application more interactive we will enable users to submit their own creations that will be showcased to other users.
7. Below we have attached the tentative Website Architecture
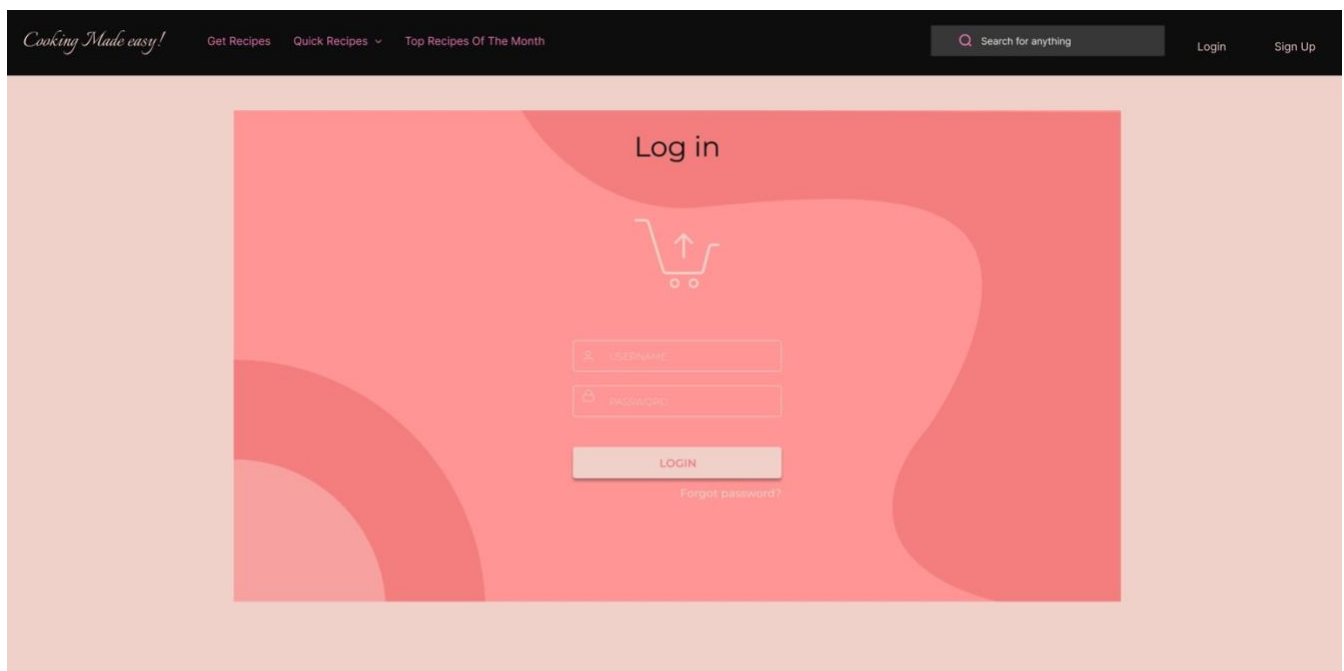
Part 2 Web App Layout:-

We have planned to make multi-page and multi-tab Website. As the color scheme we will be experimenting with different shades of Pink and Red as primary color.

1. **Landing Page:-** When user open our website, they will be landed on the following page which will allow them to either Login or directly view the recipes.

2. **Login page** is shown below.

3. After Login user will be landed in **"Get Recipes"** pages where they can apply filters and check favorite marked recipes.

4. We are also planning to develop some more pages to incorporate following features
   - **Signup Page**: To enable user to register on website
   - **Quick recipes**: This page will showcase all the recipes that can be prepared in less than 30 minutes.
   - **Search Page:** Will displays the results based on user entered search term.
   - **Recipe Submit:** Where users can submit their own creations.
   - **Top Recipes of Month:** Best on the basis of user favourite.

Part 3 Team Work:-

We have broken our system in 3 parts:

1. **Frontend:** In this Vishwa and Raghav will be primary developers.
2. **Backend:** This will consist of APIs and Database
   - **APIs** will be developed by all Kumar and Vishwa
   - **Database Queries** will be written by Vishwa and Raghav
   - **Populating and Maintaining of ClearDB** will be done by Kumar and Raghav
3. **Deployment:** This will require R&D of Heroku and Ngrok which will be led by Kumar, certain modules/Task will be handled by Vishwa and Raghav.

Note: Above we have defined the tentative roadmap and task distribution. We will be following Agile development so on the basis of workload they can change, and all the tasks will be broken down atomic level which will stitched together to build much awaited "Cooking Made Easy" web application.