

Final Project
Deliverable 1: Design Document
CSC 337: Web Programming

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Overview:

It begins with a page that asks whether to log in or create a new account. If the user chooses to create a new account, it will ask for name, profile name, email, birth year, birth month, and birth date, all which will be required fields. If the user chooses the “Login” option, it opens a welcome back page that asks for name, username, and email. Then it takes the user to the main page that offers different fortune telling options: magic eight ball, fortune cookie, personal horoscope, a journal that contains past fortunes, and a leaderboard displaying other users' most recent fortunes. It also has the option to go back to the main page. The user gets to click on whichever option they would like, and each one will lead to its own page. The end result will be a user interactive page that offers multiple fortune telling methods as detailed below.

Features:

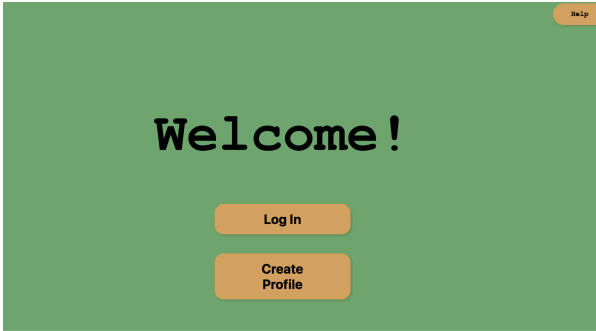
- One main page that can navigate to each specified fortune type
- 3 different fortune types accessible on individual pages
- User profiles
- Store for fortunes generated by unique users
- Shareability for user fortune journals

Functionality:

The website will have the option to create a new profile or log into an existing profile and see saved information. The home page lets the user navigate to each fortune method, previous fortunes, and see a personal horoscope. Users can get an eight ball response after asking a question. The fortune cookie method generates a random fortune from an array of random fortunes. The user can see personal horoscope information of the day with a free API. The user will be able to see a log of all their fortunes collected. There is also an option to view the world journal, showing the most recent fortune the users on the application.

Front End:

Page	Description
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Launch Page: The launch page will display the “Login” and “Create Profile” buttons, allowing the user to either create a profile for login with an existing account.

The image shows a 'Create Profile' form centered on a green background. The form is an orange rectangle containing several white input fields. The fields are labeled: 'Full Name', 'Profile Name', 'Email', 'Birth year', 'Birth month', and 'Birth day'. Each label is above its corresponding input field. At the bottom of the form is a 'Create Profile' button. The 'Birth year', 'Birth month', and 'Birth day' fields have small circular icons to their right, indicating date pickers.

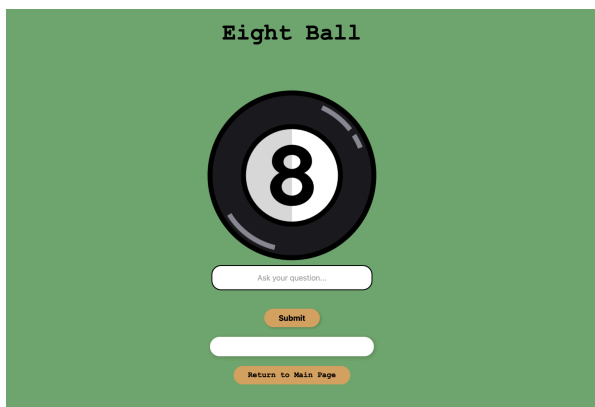
Create Profile: Form for the new user to input their information to create a profile.

The image shows a login page with a solid green background. At the top, centered, is the text 'Welcome Back' in a bold, black font. Below this are four white input fields stacked vertically. The first field is labeled 'Username' and has the placeholder text 'Enter your username'. The second field is labeled 'Name' and has the placeholder text 'Enter your name'. The third field is labeled 'Email' and has the placeholder text 'Enter your email'. Below the input fields is a small orange button labeled 'Login'. At the bottom of the form is a larger orange button labeled 'Return to Login Page'.

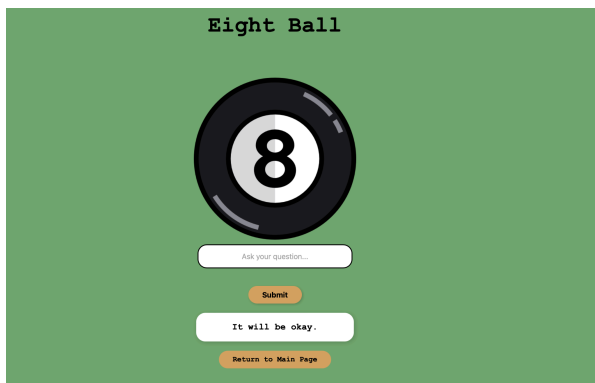
Login Page: A page for returning users to login and access their existing profile and fortunes.



Main Page: Displays all the available fortune telling options, magic eight ball, fortune cookie, personal horoscope, past fortunes journal, and world journal. Each represented with an icon that will navigate the user to that page.



Eightball Page: A page where the user can type a question and receive a random eight ball response.

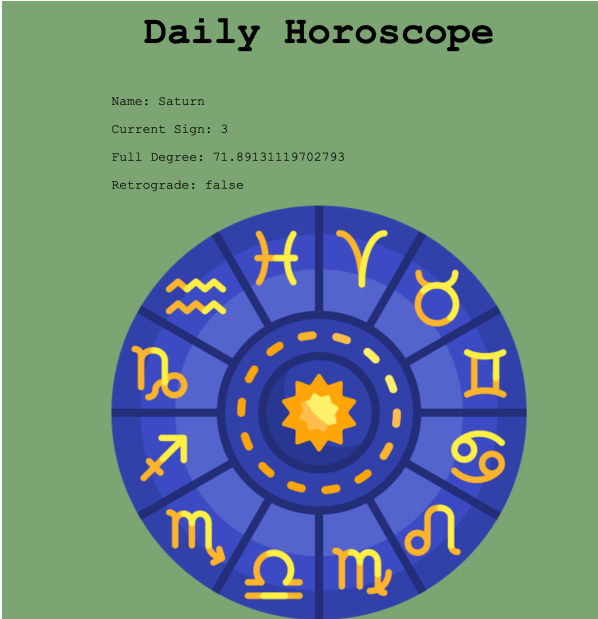




Fortune Cookie Page: Displays a random fortune from an array of responses we created. Once you click "Crack Open the Cookie" the image changes and you get a fortune.



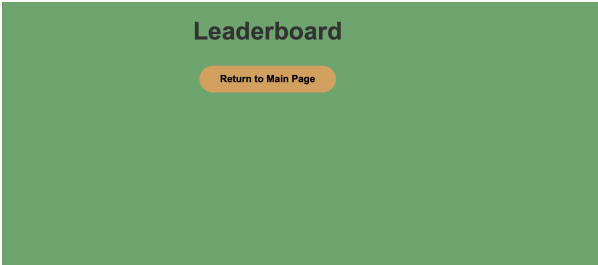
Horoscope Info Page: Displays a personalized daily horoscope information which is based on the user's birth year, month, and day. We used the following api: <https://freeastrologyapi.com/api-reference/planets> to display this information. Second picture is of when we had the page working with pulling the birthdate information from the db, making the api call, and displaying it to the page.



Stored Fortune Page: This page will display all the fortunes of the user collected across the different fortune tellings.

The second image is what it looked like for a logged in user.





World Fortunes: An interactive “leaderboard” displaying the Name, username, and latest fortune of other users on the application. Is supposed to look like the second picture.



Help Pages: A page where the new or existing user can view the instructions for help on how to proceed.

Backend:

<p>Details on how we will implement the server & database:</p> <p>Use express to initiate server</p> <p>Use mongoose with MongoDB database</p> <p>Npms: express, mongoose</p>	<p>Server-side nodejs</p> <p>Will handle the user login/account creation</p> <p>Process API calls for the fortune types</p> <p>Store user info and fortunes</p> <p>Handle routes for front end functionality</p>
<p>Routes Supported by Server</p> <p>User/login authentication for new users</p> <p>Returning user logins</p> <p>Get for users fortune journals and profiles</p> <p>Gets for the fortune telling</p> <p>Posts for saving fortunes to user journals/profiles</p> <p>Get for user saved fortunes</p> <p>Paths like: user/fortune/eightball(for type of fortune)</p>	<p>Database Structure</p> <p>Will store registered users, where each user is saved with their login info, and a fortunes collection with path fortunes.</p>