

LE/EECS1012 TERM PROJECT

Phase 1

Name of team: Programmed In The Stars

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Title of project: Astrologer

Project GitHub: <https://github.com/adamkpk/ProgrammedInTheStars>

Short description of project:

Our project is inspired by the idea of a mini database that outputs text and images. For our version of this idea, we will be creating a website where users will be able to gain information about their horoscope and zodiac sign (which is the most known and analyzed among the signs). To begin, the user can either select his/her sign from a dropdown menu or select their birth date from the calendar option. Our database server will retrieve the set of images and information that correspond to the user's input. Additionally, the user will then also have the option to get "Horoscope of the Day" information for their sign and the current date. Since storing enough unique data to dynamically update the daily horoscope each day would be beyond the scope of this project, the open-source astrology API (application programming interface) Aztro will be used to retrieve daily horoscope data.

The database will contain general information and images for each of the 12 signs. More specifically, the images would be those associated with that specific sun-sign (as the signs are represented by different images/symbols). Our website will also retrieve daily horoscope data corresponding to the user's input from the Aztro API. The data will be creatively displayed on the "display area", using CSS and JavaScript to make it presentable and dynamic, following the ethos of "responsive web design". Our group tries to generalise programming as a medium to communicate with the user, helping us to interact with the user and getting hands-on programming experience while exploring astrology.

Link to the Aztro API: <https://github.com/sameerkumar18/aztro>

Functional Requirements:

- Input options: zodiac sign selection drop-down menu (default) and birthday (month + day) selection menus.
- Initial UI will display a drop-down menu containing the 12 zodiac sign options as well as a button to submit the user's choice.
- Additionally: a button labeled "Enter my birthday instead" which, when clicked, will dynamically update the page to display a calendar for input instead of the dropdown menu. (eg. by using Javascript to update the CSS style "display" value)
- While in birthday input mode, there will also be an "Enter my sign instead" button to dynamically return to the sign selection menu input option.
- The month + day input values received can be converted into their corresponding zodiac sign input value.
- Upon submitting, only the value inputted using the **currently displayed** input method will be used (so for example, if the user selected an option from the dropdown menu, but then switched to using the calendar and hit the submit button, the calendar input value will be used)
- If the user attempts to submit without entering an input, they will be alerted to do so before submitting. Because user input is constrained to either a dropdown menu of sign choices or a month + day calendar, it should be impossible for the user to enter an **invalid** input, since the provided input options constrain possible user inputs to valid inputs only.
- Dynamically update the page to display general information and image data from the database server that correspond to the submitted input value using JavaScript via Node.js (eg. a switch statement for each of the 12 user input cases to display the corresponding data items)
- Query the Aztro API using the user inputted sign value to retrieve daily horoscope information, which will also be dynamically displayed when the user interacts with the "Get my daily horoscope" button.
- Whether the data that gets displayed to the user comes from our database or the API, the user only needs to provide input once, which will be used to retrieve both (according to the user's sign)
- Top header bar containing the web app logo as well as a dropdown navigation menu that contains 2 buttons: a link to an "about" page as well as a "refresh" button.
- Buttons- "Enter my birthday instead", "Enter my sign instead", "Submit", "About", "Refresh", "Get my daily horoscope"