

**Team: WeNeedAName****Members and Roles:**

Hong Wei Chen: Project Manager

Pratham Rawat: Backend / Database

Justin Shaw: Backend / Database

Yifan Wang: Frontend (html pages and Bootstrap framework)

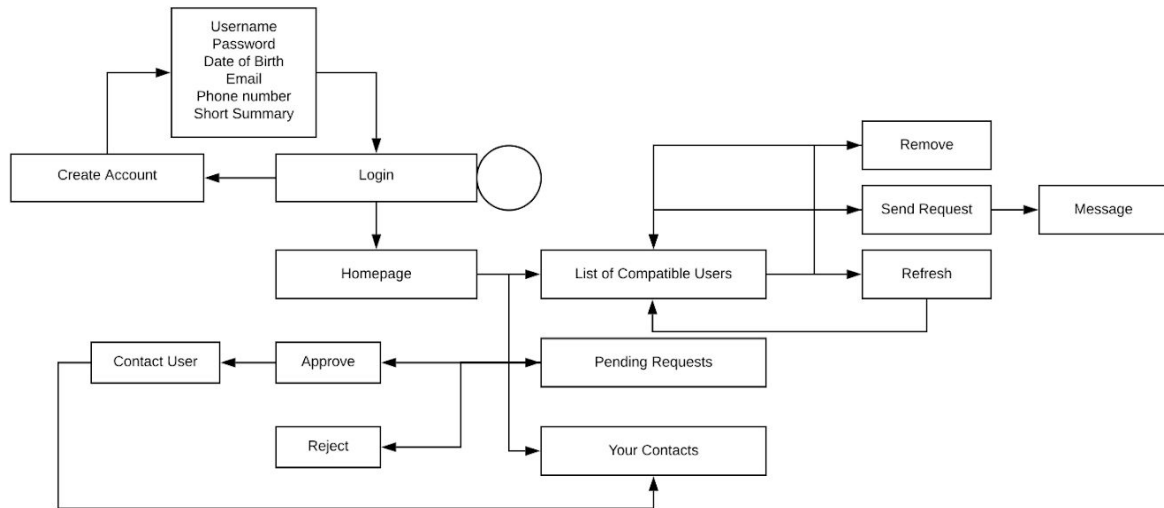
**Idea: Horoscope Dating Website**

Romance has gone amiss in the world. We find too many failed relationships and broken homes, devastating those inside. It only adds resentment, pain, and suffering to the world. We have a solution. Most relationships simply *look* at the stars, we want them to be *a part* of the stars, built directly off of strong foundations in astrology and mystic science. We can ensure your future relationship will be a success based off of our proprietary matching algorithm, pulling planetary data from various APIs and combining them with their known traits to ensure the perfect match. Don't just look at the stars, become a part of them, with **Star-Crossed**.

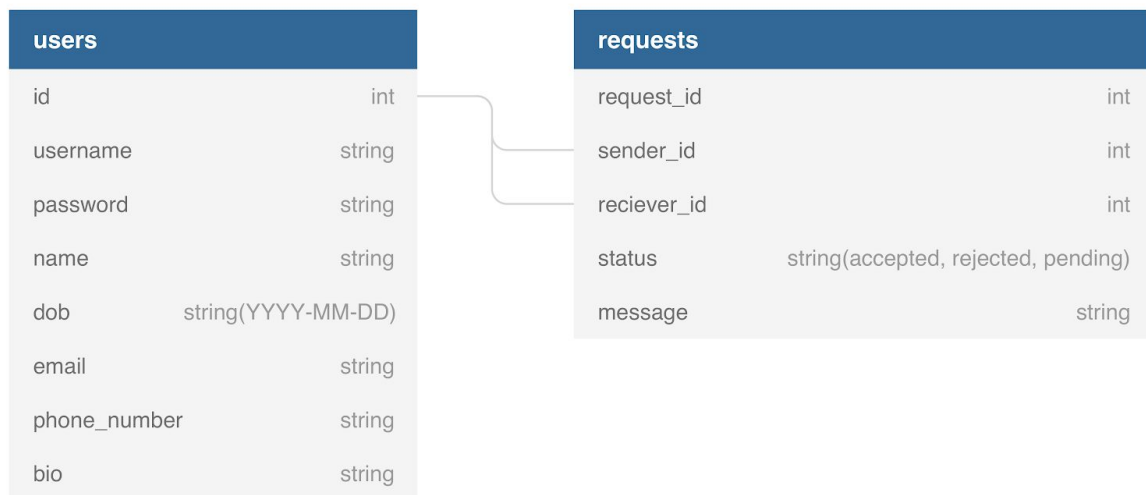
**Site Features:**

1. Authentication/registration
  - Login/signup form
2. Profile
  - Each user gets their own profile upon registration
  - Add/update personal/contact info
  - Add/update horoscope info and bio
  - Displays pending/accepted requests to other users
  - Displays requests sent from other users
3. Matchmaking tool
  - Uses APIs to retrieve data for user
  - Uses functions to determine compatibility for user
  - Creates a list of other users that are "compatible" with the user, displays bio and horoscope info
  - User can remove/block users from list
4. Shoot your shot
  - Users can send requests to users that are "compatible" to them with a message
  - Users can view horoscope information/bio about other users if they send a request
  - Users can accept/reject any incoming requests
5. Contacts page
  - Compatible users can view each other's personal contact information. No communication is available so users must converse on another app.

## Site Plan:



## Database Design:



### Component Map:

Front-end Component	Back-end Component	Interaction
Create account	users table	Creating a new user account adds a new user to the table
Homepage	Ohmanda API NASA Open API users table	Accesses the user's dob and star sign to display a daily horoscope. Displays astronomy picture of the day.
List of compatible users	SkyField API IP Geolocation API users table Geopy	Pulls planetary alignment from DOB information, and location information from IP to find matches with other users using a compatibility algorithm.
Send request	requests table	Adds a new pending request to the requests table
Pending requests	requests table	Displays pending requests to the logged-in user
Contact/user	users table	Displays user's bio and contact information
Your contacts	requests table	Displays users to whom approved requests were sent

### APIs:

- IP Geolocation API: Lookup IP Address to determine IP location, helps the user find people in their area
- Ohmanda Daily Horoscope API: provides horoscopes based upon user's sun sign
- NASA Open API: Provides soothing backgrounds to some of our pages

### Modules:

- SkyField API (installed python module): provides planetary data
- Geopy (installed python module): used to calculate distance between coordinates