

## LineDriveBetting - Phase 2 Report

**Team:** Indigo

**Github Repository:** <https://github.com/ArmanKhondker/EE-461L-LineDriveBetting>

**Team Google Drive:** <https://drive.google.com/drive/u/1/folders/0AF2MKdo4mjX9Uk9PVA>

**Project Lead:** ThienSon Ho

**Website URL:** <https://www.linedrivebetting.com>

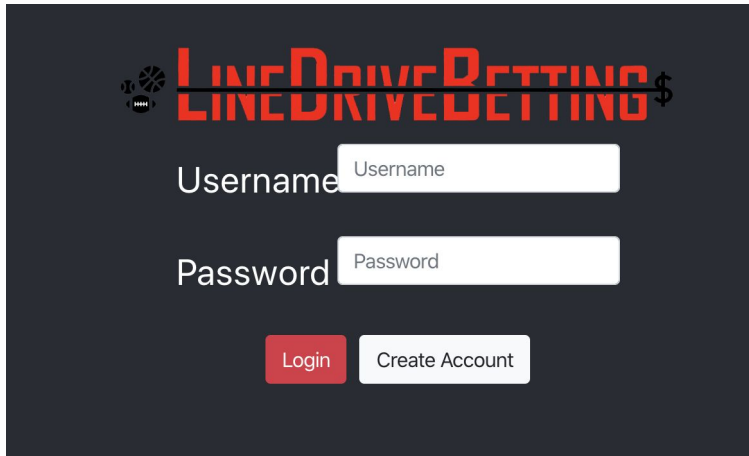
<u>Name</u>	<u>Email</u>	<u>Github</u>
Arman Khondker	armankhondker@utexas.edu	<a href="https://github.com/armankhondker">https://github.com/armankhondker</a>
Punit Patel	punitpatel@utexas.edu	<a href="https://github.com/punitpatel9">https://github.com/punitpatel9</a>
Josh Papermaster	jpapermaster@utexas.edu	<a href="https://github.com/joshpapermaster">https://github.com/joshpapermaster</a>
ThienSon Ho	thiensonho@utexas.edu	<a href="https://github.com/thienson-ho">https://github.com/thienson-ho</a>
Rohan Garg	rohanvgarg@utexas.edu	<a href="https://github.com/rohanvgarg">https://github.com/rohanvgarg</a>
Zach Herink	zachary.herink@utexas.edu	<a href="https://github.com/zherink">https://github.com/zherink</a>

### Description of Tasks:

For Phase 2, the following tasks were completed:

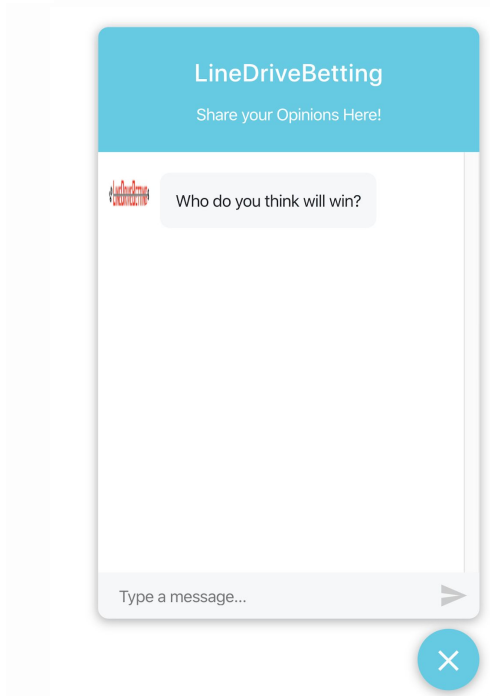
- Create Python backend REST API
  - Integrated third party API's and developed a scraping method.
- Game Betting Display Functions
  - Components and Dynamic Pages were made to accommodate all games
- Develop User Account Functionality
  - Users are able to create an account
- Scale Application
  - Necessary dynamic components were made to help accommodate all games
- Develop a Blog section
  - A limited blog page was created for users to communicate on
- Complete comprehensive testing on the web application with the following
  - SeleniumREST API unit tests with Postman
  - Javascript unit tests with Mocha
  - Python unit tests with PyTest

- Users are able to create an account for LDB.



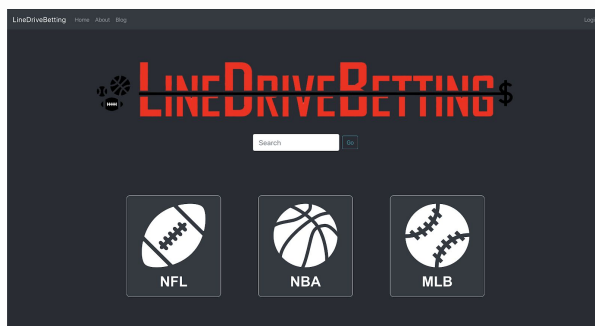
The image shows a dark-themed login and registration form for LineDriveBetting. At the top is the logo, which consists of a small icon of a football and the text "LINE DRIVE BETTING" in a stylized, bold, orange font, followed by a dollar sign. Below the logo are two input fields: "Username" and "Password", both with placeholder text. At the bottom of the form are two buttons: a red "Login" button and a white "Create Account" button.

- Users are able to input their opinion on the blog page.

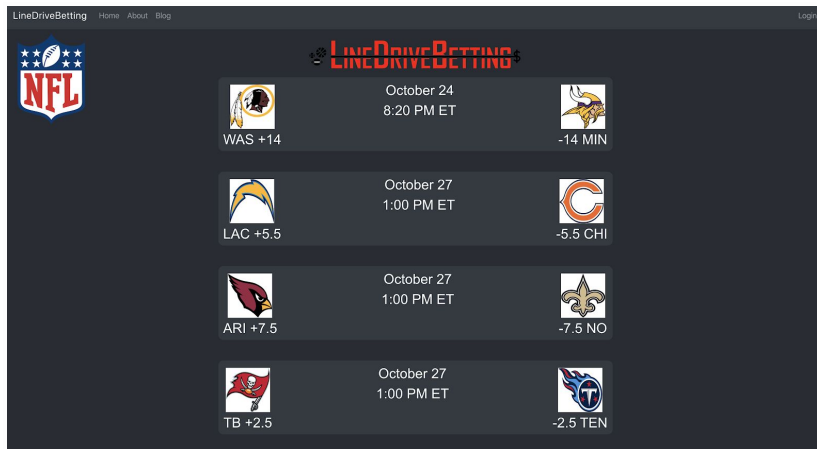


The image shows a mobile-style interface for a blog comment form. At the top is a blue header with the text "LineDriveBetting" and "Share your Opinions Here!". Below the header is a white comment box with a small icon of a football and the text "Who do you think will win?". At the bottom of the comment box is a text input field with the placeholder "Type a message..." and a blue arrow button. Below the comment box is a blue circular button with a white "X" icon.

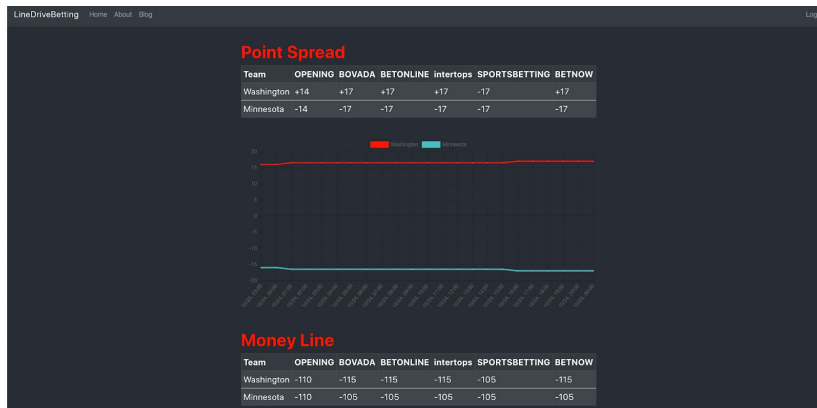
- The Home Page has been improved with the necessary links related to the new functions created.



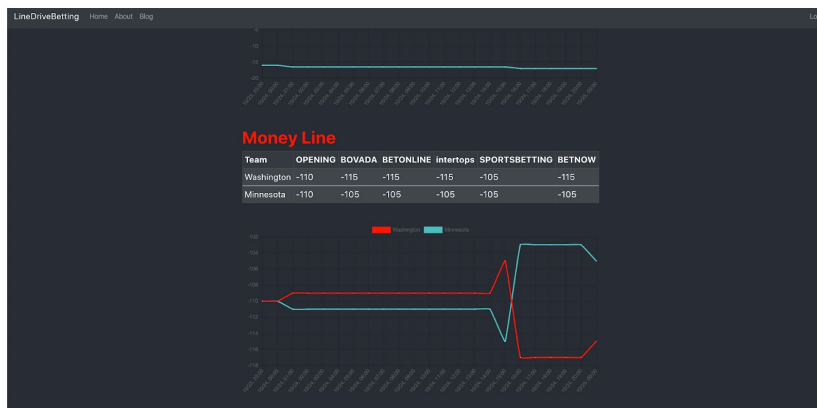
- Users are able to display all games in the coming week and see the date and time they will be played including the point spread.



- Users are able to observe the point spread and its relative trendline

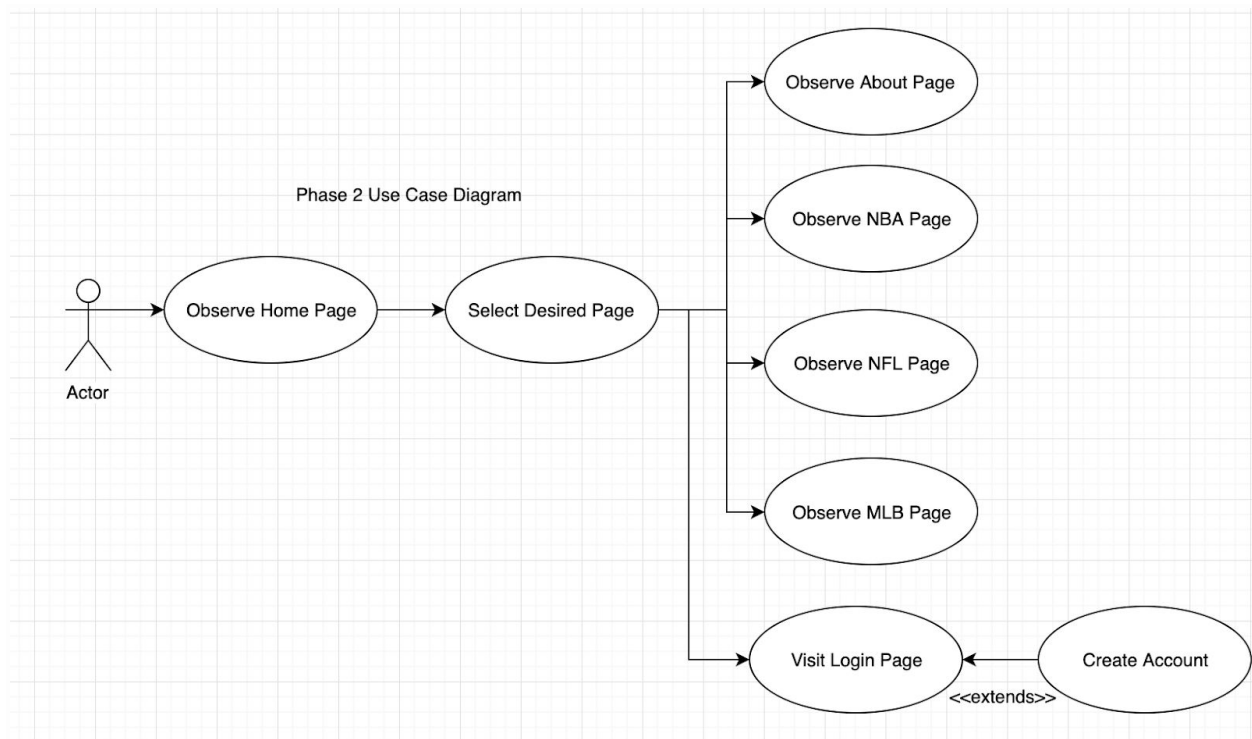


- Users are able to see the money line from various websites and see its relative trendline



## Design:

LineDriveBetting is to provide users with an aggregated betting analytics platform that provides bettors nationwide with money lines and point spreads from the most popular websites, as well as a Reddit-like blog forum to have intellectual conversations about betting lines. The home page will allow users to access specific league games, create an account, search for specific games, and see the about page. When creating an account, the user will be asked to enter basic profile information and will have the option to enter their current betting website to quickly redirect to after viewing the data. On any of the desired league or game pages, the user will be able to see all betting lines. After selecting a specific game, the user will see a more detailed breakdown of all betting data as well as have the option to discuss their picks with other verified users in the discussion forum located at the bottom of the page. For Phase 2, users have been given the ability to create an account, post on the blog page, and view games from each respective league. In addition, the styling of the website was modified for aesthetic and user-friendly reasons. Please refer to the following UML diagram to gain a better understanding of what a user is capable of doing now.



The following UML diagrams are what our deliverable is planned to look like. It highlights all the functions a user will be able to execute as described in the design section.



## Requirements:

1. As a user, I want to visit [www.linedrivebetting.com](http://www.linedrivebetting.com) click on the about tab and see all of the team members for linedrivebetting with their photo, bio, major, number of commits, and number of issues.
2. As a user, I want to visit [www.linedrivebetting.com](http://www.linedrivebetting.com) and click on the NBA/NFL text to go to the corresponding NBA/NFL page.
3. As a user, I want to visit [www.linedrivebetting.com](http://www.linedrivebetting.com) and view the linedrivebetting logo so that I can have something to remember the website by.
4. As a user, I want to visit [www.linedrivebetting.com](http://www.linedrivebetting.com) and visit the NBA page and view NBA related data.
5. As a user, I want to visit [www.linedrivebetting.com](http://www.linedrivebetting.com) and visit the home page and click on the NFL/NBA text in the navigation bar to go to the respective page.
6. As a user, I want to visit [www.linedrivebetting.com](http://www.linedrivebetting.com) and be able to create an account so that I can be part of the LineDriveBetting user base.
7. As a user, I want to visit [www.linedrivebetting.com](http://www.linedrivebetting.com) and be able to log in so that others know who has inputted comments in the blog.
8. As a user, I want to visit [www.linedrivebetting.com](http://www.linedrivebetting.com) and visit a specific game page and view the trend line and other betting data related to that game.
9. As a user, I want to visit [www.linedrivebetting.com](http://www.linedrivebetting.com) and visit the blog page and post my thoughts.
10. As a user, I want to visit [www.linedrivebetting.com](http://www.linedrivebetting.com) and visit the NFL, NBA, and MLB page and look at the betting lines for games next week.

**Tools, Softwares, Frameworks:**

Frontend: React, HTML/CSS, Javascript

Hosting: AWS

Backend: Python for web scraping

Namecheap: Obtain domain for linedrivebetting

Database: MongoDB

**Testing:**

Substantial testing was done during this phase as per our proposal. The following tests were done to ensure all Phase II requirements were met:

- Postman API tests
  - Tested <https://nu97ojsfol.execute-api.us-east-1.amazonaws.com/latest/api/mlb>
  - Tested <https://nu97ojsfol.execute-api.us-east-1.amazonaws.com/latest/api/nfl>
  - Tested <https://nu97ojsfol.execute-api.us-east-1.amazonaws.com/latest/api/nba>
- Mocha/Jest React tests
  - Tested the rendering of our React components
  - Components tested:
    - ImgButton
    - StickNavbar
    - OddsTable
    - GameBar
- Selenium Tests
  - Tested the loading of the webpage (moving more functionality to Chrome)
  - Components tested:
    - Tab Title
- PyTest Tests
  - Tested functionality of python files
  - Files tested:
    - Find\_data.py
    - utility.py