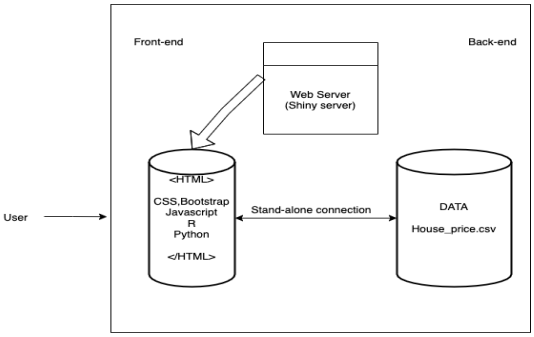
Web App Design

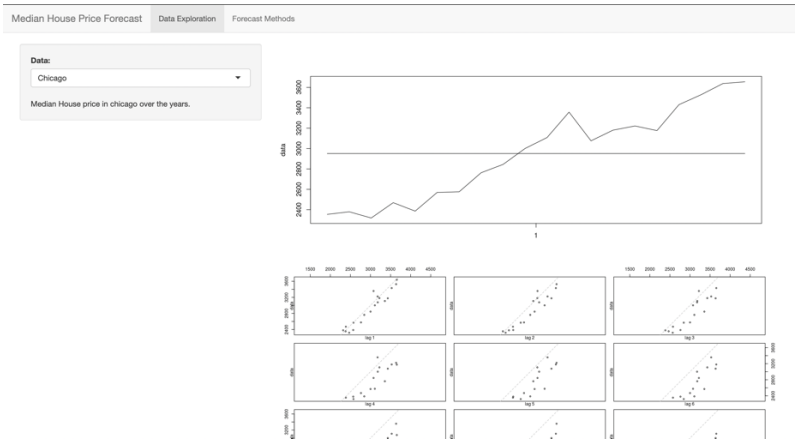
Web App Architecture

1. Our data will be stored in a website and we will access it through that url in our Webapp.
2. Backend will be built mostly using R and some Javascript.
3. The data will be accessed through a secure URL link and the users cannot change this data.
4. For the front end we will mostly use HTML,CSS and Bootstrap and some Javascript.
5. Our Application will be deployed in Shiny Server.
6. The interactivity to our app is provided to the users by allowing them to choose a city from the dropdowns, switch to different tabs, clicking and selecting the model they want to apply etc.,
7. Web app architecture.

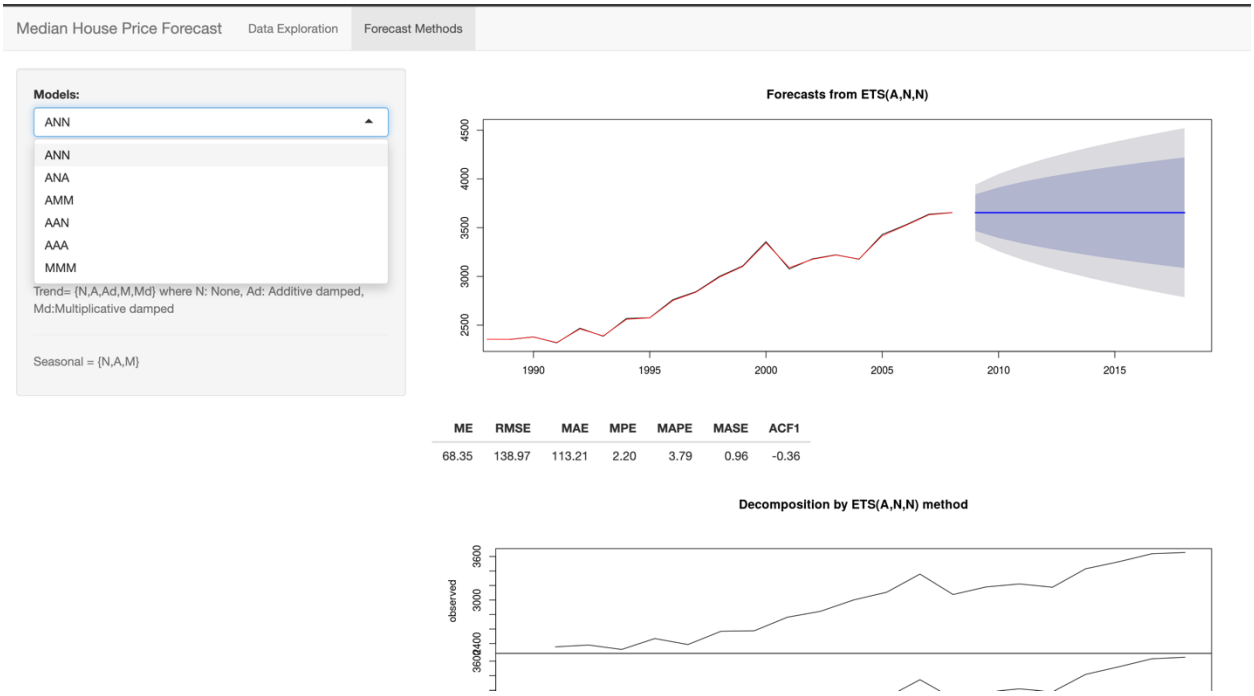


Web App Layout

Below is he initial screen the user sees, we will select a default city and display some basic time series data exploration in this tab.



We will be using 2 tabs one for data exploration and one for choosing different forecasting model. Menu will be on the left of the screen with dropdown options to select the city in the data exploration tab and to select the forecasting model in the forecast model tab.



Note:- The above screenshots are temporary and just represents the structure that will be followed, the final result may vary.

Team Work

- Create and test R scripts for different cities and choose different Forecasting models for the Users to choose from and also Suggest the best model to use.
- Start Build the Webapp on Shiny server.
- Test the webapp extensively
- Deploy the app.