Chapter 01 – Implementation

* 1. **– Chapter Overview**

In this chapter the technological and the functional aspect of the system is defined. And the functionality of our system “Market Value Prediction System” is explained in detail and it’s explained in detail for the better understanding. A clear description of the technologies used and how these technologies are used in the web application is included.

* 1. **– Overview of the Prototype**
  2. **- Technology Selections**

Mainly we focused on creating our project as a web application and developed the Frontend and back end for our web application mainly based on React Js. The table below shows the core technologies used in our application.

|  |  |
| --- | --- |
| Component | Technology Used |
| Web application (Front end) | React js, Material UI |
| Web application (Back end database) | Firebase |
| Data Science Component | Phython 3.8, Flask API, |

Table 1.3 - Technologies Used

With the development of technology the field of prediction systems are relatively developed and improved. An entire dissertation can be written about the development and software process we’re using within this project. This section provides a concise summary of the development process, highlighting the most salient points and parts in our project.

Our system is developed with a Feature Driven Methodology which will be similar to the waterfall methodology which is used mostly in the industry. We used this method to get the main benefits of the structured approach which is offered by the Feature Driven Development Methodology which could be combines with the use of the prototype used in the evolutionary development model.

* 1. – Implementation of the Data Science Component