TRADING SOFTWARE
CSE300 : Software Engineering

Group No.   : 2
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Brief Introduction :

Indian capital market has evolved many fold since NSE started electronic trading. Now, there is not a single paper involved for trading listed stocks on leading exchanges - software is taking care of all of that. There is a whole lot of web application and desktop software available for online trading stocks and for other financial instruments. In our project we will implement such software that can allow users to trade on leading exchanges online.

Boundary of our project : Our Project includes features like a floating market watch window which shows prices of the stocks. And to visualize price behaviour, we will display it through a live chart, EOD (end of day) chart with profit and low statement. We will display historical data up to the last two years and users can place the order and do trading from the popped chart itself. We will generate reports like Sector wise allocation, Equity wise allocation pi chart, Account balance and live MTM margin quote.

Feature not covered in our project : We are not using live data feed since it requires a good amount of expense in the API. So to solve it we will write a python script which will change the price of stocks randomly after every 30 second. We are not implementing candle chart in our project.

Selection of Methodology

Why Agile and Why not Linear methodology : Since in linear methods Feature are not prioritized which leads to either Complete Success or Complete Failure. While we can plan the features in agile as per need during the iteration. Since in our project we cannot introduce all features at once. So we will roll out our features as per the priority in iterations and plan accordingly. This makes our agile process incremental as well as iterative.

Selection of Framework in Agile Methodology

Why Scrum and not other frameworks :

- eXtreme Programming (XP) is suitable for smaller projects only and user involvement is highly involved; while Scrum is suitable for all types of projects and doesn't allow changes during ongoing sprint so it adds value to the business.
- Feature Driven Development (FDD) does not provide any guidance about requirement gathering, requirement analysis and risk management, while Scrum does!
- In Kanban and Lean, there is not time-bound approach, while in Scrum there is a time period for iteration of 2-4 weeks and delivers products in short iterations.
- Also, in Lean we can select, plan and implement only one feature before we repeat this process for another feature. While in Scrum we can select more than one feature in a single sprint.
- In Dynamic Systems Development Method (DSDM), the end-user actively participates with the team, while in Scrum end-user interact only with Product Owner as only product owner has perfect background knowledge.