SOFTWARE DEVELOPMENT PROCESS MODEL FOR FOOD DELIVERY APPLICATION

A software process model is an abstraction of the software development process. The models specify the stages and order of a process. So, think of this as a representation of the **order of activities** of the process and the **sequence** in which they are performed. The goal of a software process model is to provide guidance for controlling and coordinating the tasks to achieve the end product and objectives as effectively as possible.

The software development process model that I am going to adopt is the Agile model. This approach helps in building a quality product, better collaboration, adapting to change, and quick delivery. This approach helps to manage and complete work more efficiently while delivering the highest quality product keeping in mind the constraints of the budget. The rapid, discontinuous, and volatile changes in the marketplace require a development methodology that can move fast enough to adapt to changing consumer demands thus I will use the Agile model for my application. Agile methodologies consider development as an incremental and iterative process. This helps in addressing changing demands and adapting to unknown unknowns as the team encounters them. It follows the typical Software Development Life cycle(SDLC) of Ideation/Planning, Designing, Developing, Testing, and Deploying the Features. It uses incremental iterative work sequences that are commonly known as sprints. A sprint is a period of time allotted for a particular phase of the project. Sprints are considered to be completed when the time period expires. The sprints follow a shorter lifecycle of 1-4 weeks.

As we apply the agile software development model for our food delivery application, online ordering should be the first feature that we will work on.

We will use the steps of the agile model to develop the online ordering feature as follows:-

- **Ideation**: Online ordering feature will be available on the home page and restaurant details page as users will need this feature on both pages.
- Design: Now we will make the design characteristics of all icons and screens.

- **Testing**: We will evaluate the feature on the metrics like how many users use the features, revenue generated from this feature, and average revenue per user and average revenue per order.
- Implementation and deployment: I will implement the features in the order as follows first order online option will be built. On clicking on it, the menu items listings page should appear. Then, the final order details page should open and finally, the payment option should appear.

Now, after the online ordering feature, filters for search feature is important. So, We will develop it as given below using agile methodology.

- **Ideation**: Filters will be provided on the basis of tags, cuisines, ratings, likes, and categories.
- **Design**: All filters will be displayed on top or left of the screen one after the another.
- **Testing**: The metrics to be evaluated will be the frequency of usage among filters, the average no. of filters applied per search, etc.
- Implementation and Deployment: The filters would be built and deployed in the order as follows, first cuisine filter, then the rating filter after the category filter, and finally location filter.

-HARSH RAWAT

-Project no. 11

-Group no. 16