<u>Capstone Project I</u>

<u>Project Plan</u>

Project Title: A WordPress like Blog Environment with Pluggable Modules.

Project Sl. No.: 07

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Team Members:

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Short description of The Project:

The main design element here is to create a pluggable pattern to enhance the capability of a blog engine using plugins. Plugins can implement specific functionality on a post - for example translate it, or highlight specific keywords inside it and many other things.

- When a post is created or displayed, plugins registered should be automatically invoked and allowed to interact with the body of the post and can make modifications on it.
- Users should be able to configure what plugins are applicable and will be able to enable or disable plugins dynamically according to user's choice.

Work Plan: (Including timelines and who will do what)

Pre-requisites: Spring MVC Framework (Will be used for making this web application), Apache Maven, & Build Management Tools.

Our group will take a **Modular Approach** for developing this project, means first we will divide the whole project into small modules and develop those modules, after that we will test whether the module is working as it is intended and then we will move forward to another module if the testing result is positive. Since we want to be sure about the errors and bugs, we would be creating a small prototype of this project like beta stage. Later on, we will add new features one by one to it based on the feedback we receive from our users. Our project would be making a Java software that allows a user to create, use and remove templates and plugins and every template would create a new website/blog design for implementation and editing. Our first step would be to create a basic GUI using HTML and CSS. This will

be done with a click of the mouse over directories in "file Selecter" that is a GUI swing method in Java that lets user select files and store their address for future file handling.

The code will be translated to basic website front-end setup as shown on screen by the browser. Most of which is planned to be done with regular Expression as for now.

User could edit later on code without direct interaction like drag and drop. That would be all because of text editing by a few clicks and direct keyboard text entry on the icons, texts, links, headers, buttons, images etc. The code would show no changes unless the user saves those changes.

After doing all the above, some features such as save, load and edit would be included to create a single project. Debugging, error Handling and exceptions would be taken into account. Various users would then test the project and new changes will be based on the feedback we received.

 "No requirement of coding knowledge is required from the user or customer side"is the main agenda or the main goal that our group wants to achieve through this project.

Tasks Assigned To Every Group Member:

1. **Sandeep Kumar –** Coder for Application.
   Since a great deal of command on the platform independent language Java is needed, Sandeep is one of the developer working for the main java application development process. The initial approach would be discussing the workflow of templates so that some basic idea can shape in mind. He would be working with the other group member named Suraj Prakash Sharma to try to implement his java skill, to understand and work with web templates.
2. **Suraj Prakash Sharma –** Coder for Website Template.
   Suraj is responsible for creating basic templates as the project move forward, as sample code to test the main application. His deep knowledge in websites would be big support and act as a strength to the group. Other part, on which Suraj will be working on is the database required to store the information of the user. Therefore, for secure login, we are going to build a secure authentication system so that the user's private data is safe.
   As, our system needs to communicate with the database, we will use PHP for achieving this task.
   Mostly, Sandeep and Suraj will be working on the Back-End of the system.
3. **Shubham Singh & Rishabh Gangwar-**Front-End Developer.
   He will be working on the GUI of the website, using web-technologies like HTML, CSS and JavaScript; he will be developing the front-end of the website.
4. **Rohan Shrivastava and Rajat Sinha–** Testing, Documentation Part and Other Research.
   Since no application is useful if it does not work as intended so, we need to test and check our codes for errors, bugs and security flaws. These people will handle this part of work. The skillset that makes them an asset to our team is they can read and understand code easily, which would be helpful in finding the exceptional cases that lead to future problems of any sort.

In last, we will be using GitHub version control system for saving all our work.