Project Planning Phase Milestone and Activity list

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| Date | 06-November-2022 |
| Team ID | PNT2022TMID01370 |
| Project Name | Smart Fashion Recommender Application |
| Maximum Marks | 8 Marks |

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| **MILESTONES** | **ACTIVITY** | **DESCRIPTION** |
| Ideation phase | Literature survey | Literature survey on selected project and gathering information. |
|  | Empathy map | Prepare empathy map to capture the user pains and gains, prepare a list of problem statement. |
|  | Ideation | Organizing the brainstorming session and prioritize the top three ideas based on feasibility hand importance. |
| Project design phase 1 | Proposed solution | Prepare proposed solution document which includes novelty, feasibility of ideas, business model, social impact, scalability of solution. |
|  | Problem solution fit | Prepare problem solution fit Documents. |
|  | Solution architecture | Prepare solution  architecture document of the project |

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| Project design phase 2 | Customer journey map | Prepare customer journey map to understand the user interactions and experience with the application. |
|  | Functional requirements | Prepare functional and non- functional necessity document. |
|  | Data flow diagram | Prepare data flow diagram and user stories |
|  | Technology architecture | Draw technology architecture diagram |
| Project planning phase | Milestones and activity list | Prepare milestones and activity list of the project. |
|  | Sprint delivery plan | Planning of sprints |
| Setting-up app environment | Create IBM cloud account | Sign up IBM cloud account |
|  | Create flask project | Getting started with the flask to create project. |
|  | Install IBM cloud CLI | Install IBM command line interface (CLI). |
|  | Docker CLI installation | Installing docker CLI |
|  | Create an account in SendGrid | Create an account in SendGrid and  use service as email integration to the application for sending emails. |

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| **MILESTONES** | **ACTIVITY** | **DESCRIPTION** |
| Project development phase | Delivery of Sprint-1,2,3,4 | To develop and submit the code after completion of  testing. |
| Implementing web application | Create UI to interact with the application. | Create UI  registration page login page  view products page |
|  | Create IBM DB2 and connect with the  Python. | Create an IBM DB2 in the IBM cloud and connect it  to Python. |
| Integrating sendgrid service | SendGrid integration with the Python. | The SendGrid services must be integrated in order for the application to send emails. |
| Developing a chatbot | Building a chatbot and  integrate with the application. | Build the chatbot and  integrate it to the flask application. |
| Deployment of app in IBM cloud | Containerize the app | Create a docker image of the application in addition to  push it to the IBM container registry. |
|  | Upload image to IBM container registry. | Upload the image to IBM container registry. |
|  | Deploy it in Kubernetes cluster. | Once the image is uploaded to IBM container registry deploy  the image toward IBM Kubernetes cluster. |