**Project Planning Phase**

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| Date | 25 October 2023 |
| Team ID | 593505 |
| Project Name | AI System That Verifies User Identities Based On Their Online Behavior Patterns, Adding An Extra Layer Of Security |
| Maximum Marks | 8 Marks |

**1. Requirements gathering and analysis**

The first step is to gather and analyze the requirements for the system. This includes understanding the needs of the users and the businesses that will be using the system, as well as the specific requirements for the system's functionality, performance, and security.

**2. System design**

Once the requirements have been gathered and analyzed, the next step is to design the system. This includes developing a high-level system architecture, as well as detailed designs for the different components of the system.

**3. Data collection and preparation**

The system will need to be trained on a large dataset of user data. This data will need to be collected and prepared, which may involve cleaning the data, labeling the data, and splitting the data into training and testing datasets.

**4. Model development and training**

The next step is to develop and train the AI model that will be used to verify user identities. The model will be trained on the prepared data, and its performance will be evaluated on a held-out test dataset.

**5. System integration and testing**

Once the AI model has been developed and trained, it will need to be integrated into the overall system. This will involve connecting the model to the other components of the system, such as the user interface and the data stores. The integrated system will then need to be thoroughly tested to ensure that it meets all of the requirements.

**6. Deployment and maintenance**

Once the system has been tested and verified, it can be deployed to production. The system will need to be monitored and maintained on an ongoing basis to ensure that it is performing as expected and that it is secure.

In addition to these steps, the project planning phase should also include the following activities:

* Risk assessment and mitigation: The project team should identify and assess the risks associated with the project, and develop plans to mitigate these risks.
* Project scheduling and budgeting: The project team should develop a detailed project schedule and budget.
* Communication planning: The project team should develop a plan for communicating with stakeholders throughout the project.
* Change management planning: The project team should develop a plan for managing changes to the project scope, schedule, or budget.

By following a well-defined project planning phase, the project team can increase the chances of success for the project.