# CS3IP Project Definition Form

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| **Student Name/ID:** Muhammad Saim Hameed /220256218 |
| **Course:** Computer Science BSC |
| **Project title:**  Interface Intelligence: Elevating Design through AI Tools |
| **Supervisor:** Dr Hassan Aqeel Khan |
| **Date:** |
| **Project overview:**  In order to improve user experience and save time, this project focuses on using AI techniques to develop user interface design. Automating design processes like colour selection and layout allows designers to iterate more quickly and create interfaces that are easier to use. The initiative aims to increase overall design effectiveness and user happiness through thorough study. Additionally, in order to ascertain the most practical and efficient course of action for further development, it will contrast AI-generated interfaces with manual designs and those produced by automatic website generators. |
| **Project deliverable:**  **AI-Enhanced Interface Designs:** Create and execute interface designs that are enhanced by artificial intelligence to boost visual aesthetics and user interaction.  **Analytical Tools Integration:** Examine the efficacy and efficiency of the improved interface designs by integrating AI analytical tools.  **Automated Design Refinement:**The process of iteratively refining designs based on AI-driven insights can be facilitated by implementing automated tools.  **User Experience Assessment:** To determine how AI-enhanced designs affect the user experience overall, collect user feedback and conduct user testing. |
| **What is interesting & useful about this project?**  This project is interesting because it investigates the relationship between artificial intelligence and design, with the goal of developing interfaces that are both visually appealing and optimally functional. The addition of AI tools adds a dynamic element to the design process, potentially improving user experience and interface design. |
| **Outline Project Timetable:**  **October:**  Literature review on AI in user interface design and university portal structures.  Initial meetings with the supervisor for project guidance and approval.  **November:**  Design and development of AI-enhanced portal interface prototypes.  **December:**  Integration of analytical tools for performance assessment.  Implementation of automated tools for user support.  **January:**  User testing and feedback collection.  **February:**  Analysis of feedback and iterative improvements to the portal interface.  **March:**  Finalizing project documentation and preparing for presentation.  **April:**  Project completion and submission. |