**Project Outline**

**Project Description:** Drift is a personal AI assistant, inspired by Jarvis from Iron Man. Developed over 7 weeks by a team of two, the project aims to deliver essential functionalities through an intuitive front end using React.js and Tailwind CSS. The system integrates natural language processing (NLP) using Hugging Face's transformers library and ensures a responsive user interface. Rasa will be used for advanced dialogue management to handle complex user interactions and maintain conversation context. Development and collaboration will be managed using GitHub.

**Tech Stack:**

* **Frontend:** React.js, Tailwind CSS
* **Backend:** Python3 (Flask)
* **NLP:** Hugging Face's transformers library for advanced NLP tasks
* **Dialogue Management:** Rasa for handling complex dialogue flows, managing intents, slots, and conversation states
* **Version Control:** GitHub

**Key Features:**

* **NLP:** Implement Hugging Face's transformers library to understand user intents, process commands, and generate appropriate responses.
* **Dialogue Management:** Integrate Rasa for managing complex dialogue flows, handling context, and maintaining conversation states across multiple turns.
* **Frontend Development:** Build a responsive and intuitive user interface using React.js and Tailwind CSS, ensuring a smooth user experience across devices.
* **Backend Services:** Use Python with Flask to manage backend logic, integrate NLP functionalities, and handle communication between frontend and backend components.

**Development Methodology:**

* **Agile Approach:** Adopting an agile methodology for iterative development, focusing on frequent releases and user feedback to refine features and enhance usability.
* **Version Control and Collaboration:** Utilize GitHub for version control, enabling seamless collaboration between team members, issue tracking, and continuous integration.