

# SOFTWARE ENGINEERING

## Final Semester Project

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### JAP

JAP is a user-friendly software designed to assist individuals in generating personalised business ideas, plans, and get information about the business industry, the minimum capital required and so on.

The web based mobile responsive software was built with NEXTJs for the frontend, Node + ExpressJs for the backend, PostGres Database for the database and OpenAI's free API was integrated to as the MAN (Artificial Intelligence) behind the generation of the business details.

Users will interact with the AI-powered business idea generator through a user-friendly interface, typically designed to resemble a chat-based system. Here's a step-by-step explanation:

**Access the Interface:** Users can access the generator through a web application after authentication (Sign Up / Sign In).

**Introduction:** Upon entry, the system provides a brief introduction, explaining its purpose and inviting users to start generating business ideas.

**User Input:** Users initiate the interaction by typing or providing input using natural language. They might express preferences, specify industries, or describe the type of business they are interested in.

**Idea Generation:** Based on the user input and contextual understanding, the AI generates diverse and innovative business ideas. The system considers various factors, such as industry trends, market demands, and potential profitability.

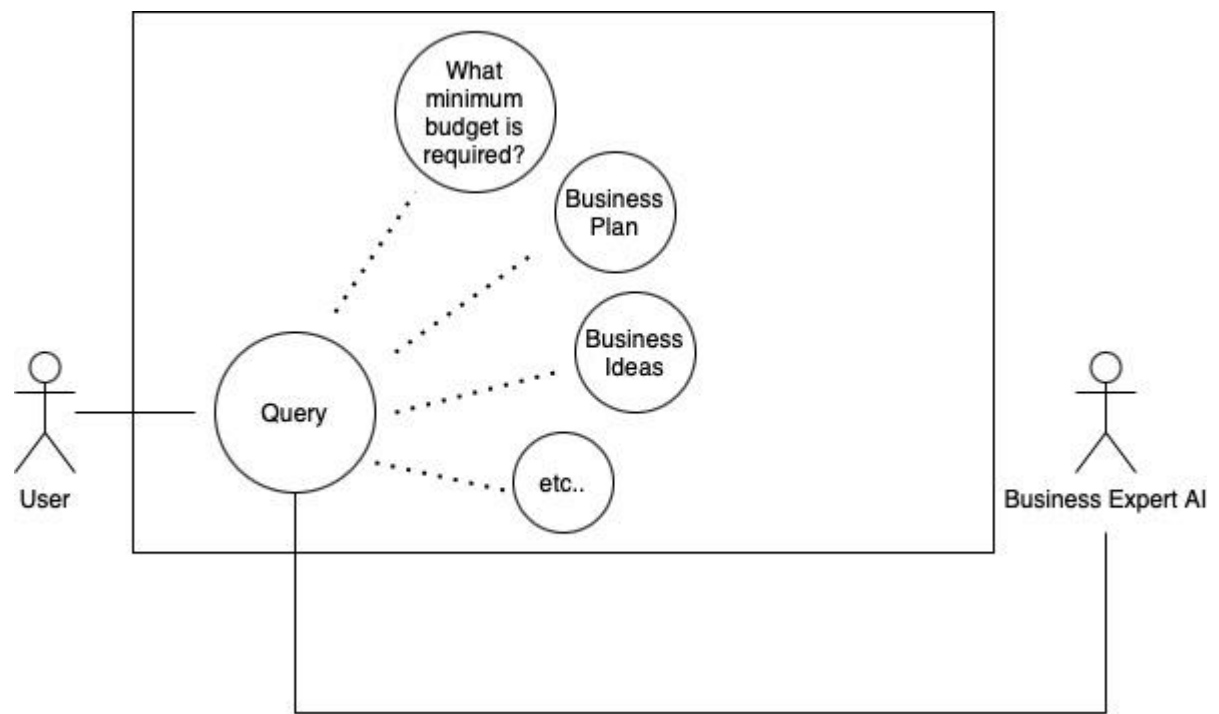
**Presentation of Ideas:** The generated business ideas are presented in a conversational format, similar to how a chatbot would communicate. The system may also include visual elements or additional details to enhance the presentation.

**User Interaction with Ideas:** Users can interact with the generated ideas, asking for more details, modifications, or additional suggestions. The system adapts to user feedback and refines the suggestions accordingly.

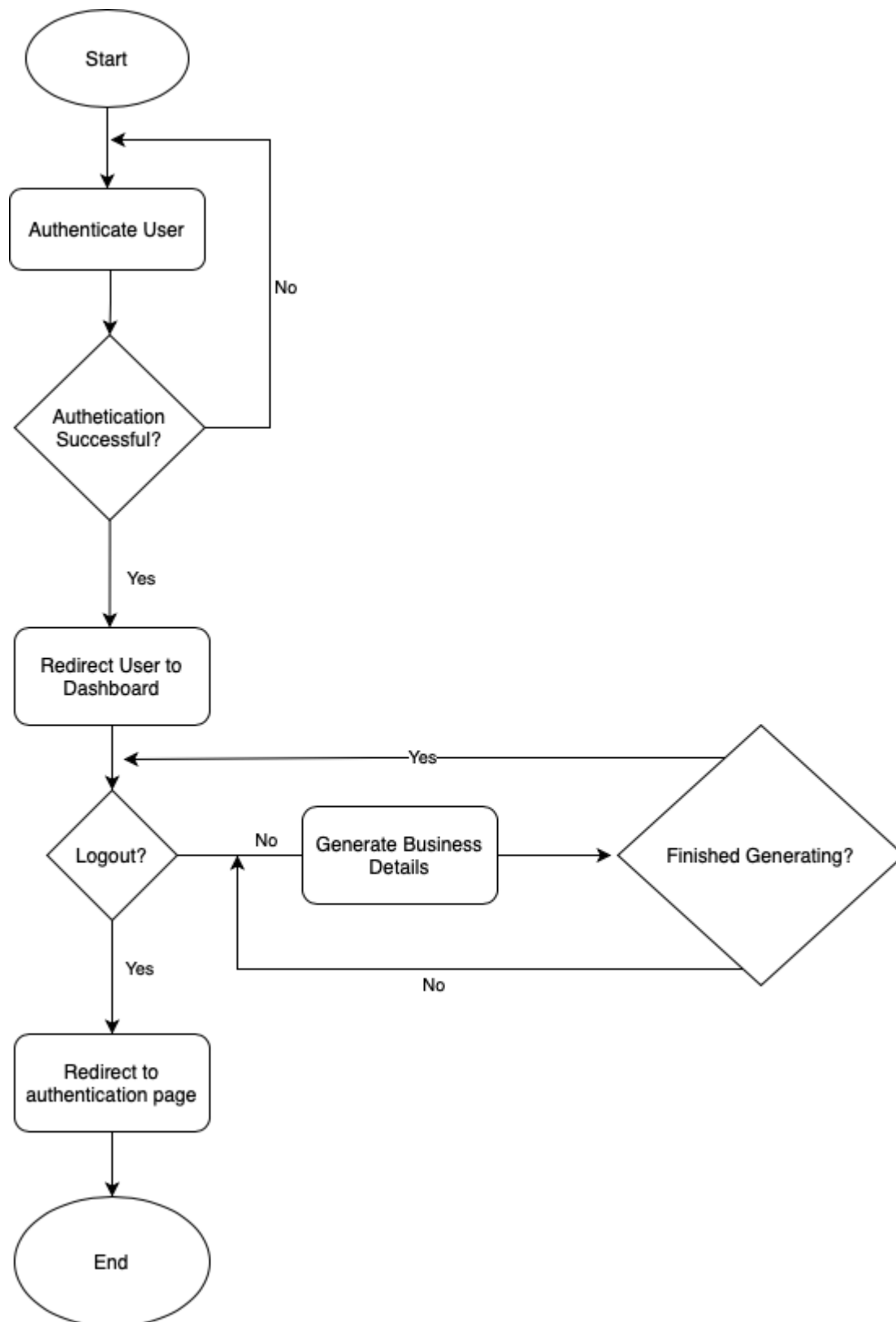
**Iterative Process:** Users can engage in an iterative process, refining their preferences and receiving updated business ideas until they find concepts that align with their interests and goals.

By providing a conversational and intuitive experience, the AI-powered business idea generator aims to streamline the process of idea generation, making it accessible to a wide range of users, including entrepreneurs, innovators, and ind

Diagrams that aided the team in the development process are below



UML Diagram



Flowchart