



SMART INDIA HACKATHON 2022

Organization Name: **Ministry Of Education**

PS Code: **SIH1434**

Problem Statement Title: Making career choices and AI based counselling accessible to every child at secondary level along with aptitude tests and detailed career paths.

Team Name: **DDT(Digital Dream team)**

Team Leader Name: Viral Singadiya

Institute Code (AISHE): U-0647

Institute Name: R K University

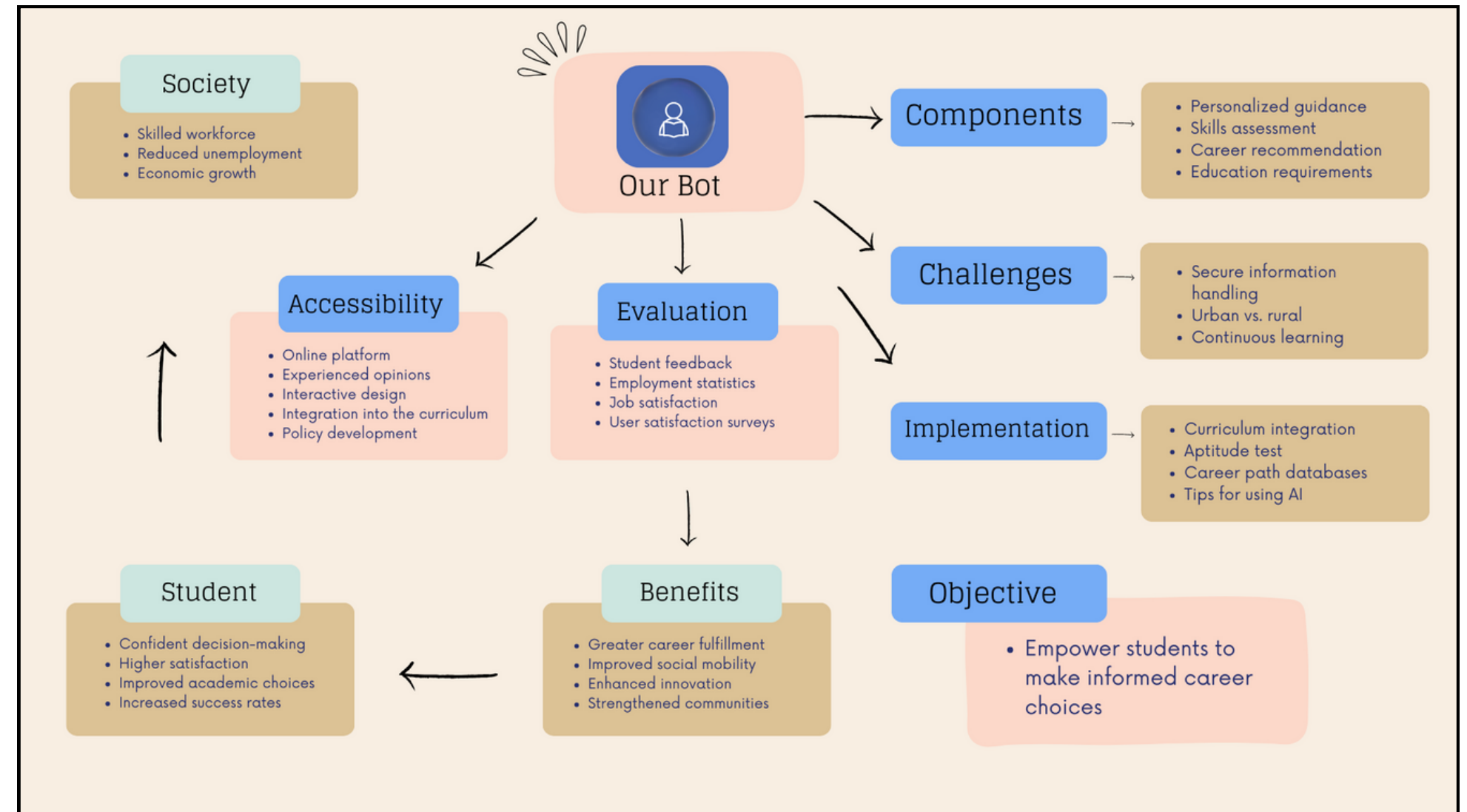
Theme Name: Smart Education

Idea/Approach Details

Mind Map

Describe your idea/Solution/Prototype here:

- Our team is providing students with the greatest career guidance options for a **bright future**.
- Given the greatest **Audio, Video,** and **AI technological** advancements using **Machine learning**.
- Constructing a **chatbot** to direct students towards the finest courses and show the **best career path**.
- We gather user interests and recommend the best options for **careers based** on those interests. We also recommend a **top college** and **university** for it.
- Using prominent AI like **ChatGPT, Bard,** and **Bing,** among others, in our bot, we help a student continue in his career without stopping.
- Permit students to keep track of their **development,** go back over assessments, and alter their **job interests** as they change.



Flask	Dbms
Python	Sqlite
Django	Web scraping
Ux/Ui	Ai
FastApi	Html/Css/Js

Idea/Approach Details

Describe your Use Cases here:

"Empowering students to explore career choices with an **open mind**, shaping their futures with limitless possibilities."

- Aptitude tests **help students** understand concepts and ideas beyond their current understanding and provide **correct guidance**.
- Our chatbot is able to **provide notes** also. Or we can connect our chatbot through capable to provide notes in **different subjects**. For example, **Share market, Cryptocurrency, Hacking, Cyber Security** etc...
- Making work easier and assisting them in learning by employing modern methods like **machine learning**.
- Career search support: Our bot can search a career for the user based on their **skill** and **interest**. They can also recommend study boards, colleges with the user's **career goals**.

Describe your Dependencies / Show stopper here

- **Scikit-learn/python**: For traditional machine learning methods, such as those for **spam detection, picture recognition, prediction-making**, and **customer segmentation**, employing the Python library **numpy, pandas** is quite helpful.
- **API**: When interacting with external APIs, Python is frequently utilized. For API interactions, developers can utilize libraries like requests or **specialized packages**.
- **Database**: A serverless, lightweight relational database management system is called **SQLite**.
- **PyTorch**: It is particularly beneficial for ML and DL applications like computer vision and **natural language processing** (NLP).
- **Web Scraping**: Our **algorithm** successfully identified the top five YouTube videos and provided **easy to understand career path videos** using web scraping.
- **UX/UI**: Making the best design decisions and applying them to the HTML and CSS results in a **user-friendly website**.
- For utilizing **Flask** and **Django** for frontend and backend connections.

Team Member Details

Team Leader Name: Viral Shingadiya
Branch :Btech

Stream : CE

Year : I,II

Team member 1: Priyal Bhesaniya
Branch :Btech

Stream : IT

Year : I,II

Team member 2: Madhvi Sanghani
Branch :Btech

Stream : CE

Year : I,II

Team member 3: Deep Nimbark
Branch :Btech

Stream : CE

Year : I,II

Team member 4: Rajveershih Jadeja
Branch :Btech

Stream : CE

Year : I,II

Team member 5: Smit Dodiya
Branch :Btech

Stream : CE

Year : I,II

Team Mentor 1 Name: Type Your Name Here

Category (Academic/Industry): Expertise (AI/ML/Blockchain etc): Domain Experience (in years):

Team Mentor 2 Name: Type Your Name Here

Category (Academic/Industry): Expertise (AI/ML/Blockchain etc): Domain Experience (in years):