CODE CLUB:

Ideathon Submission 30-31 Oct

Rules:

1) Go to File/Make a copy of the entire template and then start editing it.
2) Try to incorporate all the details in the given number of slides. Max three extra slides can be included so total number of slides should NOT exceed 13.
3) If required you may include FlowCharts, roadmaps, graphs, to explain the Idea better.
4) No plagiarism is allowed, try to bring out your creativity and think of a unique idea.
5) Try to keep it as concise as possible.
6) You can edit the size of the text boxes according to your needs, but it should not look too crowded or messy.
7) Teams will get penalty points if more than three extra slides are added to the submission template.

Team Name: Quintet

Theme: Diversity & Inclusion
Problem Statement Name: Made in India

Team Members

01 - Himani Anil Patil (Team Leader)

02 - Sakshi Ranjit Raut

03 - Payal Ravindra Gaikwad

04 - Shraddha Sunil Paymode

05 - Sakshi Mukund Parandwal

01 Problem Statement

As it is said **"YOU CANNOT BECOME A RICH MAN OF A POOR COUNTRY"**. So, to boost the economy of the country it is very important to buy Indian products and reduce consumption of non-Indian products.

The 'Atma Nirbhar Bharat Abhiyan' started by PM Narendra Modi also suggests that India must be **self-reliant**, **self-sustaining** and **self-generating**.

The local people need to be encouraged to make the same non-Indian products in our country itself and less cheaper than the non-Indian products. So with the booming technologies like **web development**, **app development**, **Artificial intelligence** and **Data analytics** these issues need to be solved.

By developing the apps with search option(manual search,scanner) to search products, this will let us know the country of origin of the products and will help the customers to buy Indian products. Adding info of local businesses in the app/website will help to promote '**SWADESHI**' products and these will surely decrease the import of non-Indian products.

02 Brief Solution Description

Here we are presenting an app & a website **"IndiPro"** where users can get information about Indian Products in various domains at one place.

Basic Operations:
- ❖ **Search:** To search products by name/ brand/ domain.
- ❖ IndiPro will **suggest:** Alternative similar **indian** products.
- ❖ **Register:** Manufactures can register their businesses.
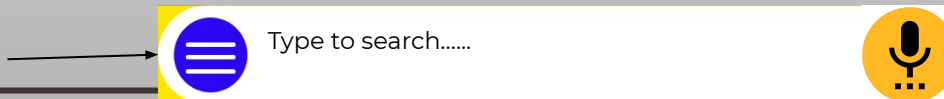- ❖ **Business Opportunities in India:** It will suggest business opportunities and all required information.

03 Detailed Solution
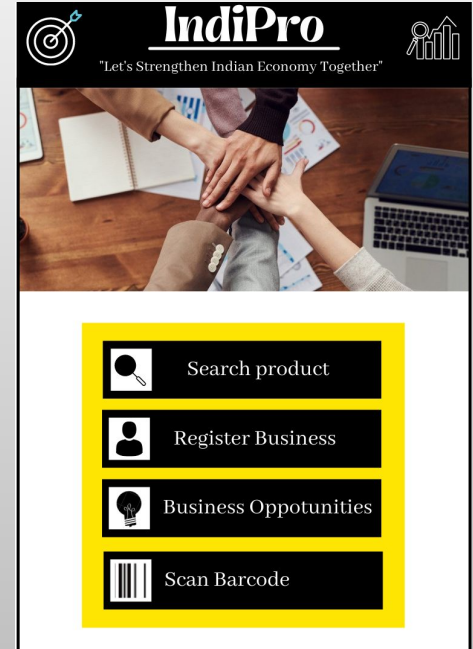
Basic layout of website Home Page

Basic layout of App home page

IndiPro

"Let's Strengthen Indian Economy Together"

- Search product
- Register Business
- Business Oppotunities
- About Us

IndiPro

"Let's Strengthen Indian Economy Together"

- Search product
- Register Business
- Business Oppotunities
- Scan Barcode

The search option will allow to search specific products or by applying filter

filter → Type to search......
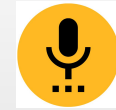
Search results:

- ❖ Indipro will:
  - ➢ Suggest **Alternative** Indian products if searched product is not made in India.
  - ➢ Display message if no indian product is available against searched item - "**No alternative Indian Product available**"
  - ➢ Suggest **Similar Indian products** if searched product Made in India.
- ❖ Results for:

search methods

Indian product	Non-Indian product	If no indian alternative available

- Compare will ask to choose 2 to 4 products
- Comparison will have different points based on features of product and it will contain the percentage contribution of product to indian economy.

Registration :

- Manufactures can create their account
- Add contact details
- Can add all products in **various domains**
- Can keep **updating** information

Register your Business...

- ⬛ ENTER YOUR BUSINESS/COMPANY NAME HERE
- ⬛ GIVE BUSINESS DOMAIN DETAILS
- ⬛ ENTER CONTACT INFO:
- ⬛ CLICK HERE TO UPLOAD REQUIRED DOCUMENTS
- ⬛ ADD YOUR PRODUCTS NOW!

Business Opportunities:

- Indipro will show the **list** of products that **do not get manufactured in India** Ex. **LCD boards & screens, some machine components,** etc.
- Also it is providing all necessary information about the different factors to **encourage production**.

Business Oppotunities in India

Choose a Business Domain:

Choose Sub-domain:

Choose Product:

- ➤ Why India do not manufacture this product?
- ➤ Current scenario of Indian market.
- ➤ Required components and raw material.
- ➤ Manufacturing Process
- ➤ Best location to start production.
- ➤ Check out how Make In India can help you

04 Scope of Idea

- Made in India involves **domestic factors** such as land, labour, entrepreneurship and technology.
- Talking about present, due to covid situation our county is suffering from large economic crisis. Somewhere to **support** our country, buying **products from our people** is necessary.
- As we have mentioned above our app and website have information of made in India products. Information in the sense **all details** of individual product.
- Manufactures can create their account in this app and present their products.
- Users can search for product or can scan QR code of any product they want or they can see **list of indian products** by applying **filter**.
- The app will display local alternatives for Non-India made product.
- In future, we can introduce new features in this app such as **IQ based chatbots, personal chatbots, advertisement** of new products launched by Manufactures.
- This app and website will **create awareness** among people about variety, quality, quantity and the perfect amount that user customer should pay for product.
- Manufactures and artisans will get proper idea about the domains in which Indian products are not available.

05 Technology Stack

❖ **App development:**
  ➢ **Java can be** for development of app. Because java has some features like ample amount of **open-source libraries,excellent documentation, security** and **community support.**
  ➢ **Android Studio** and **Android Developer tools(ADT)** for developing android applications.

❖ **Website development:**
  ➢ **HTML -** Creating basic structure of website
  ➢ **CSS and Bootstrap -** Designing website
  ➢ **JavaScript -** Front-end
  ➢ **Php -** Backend

❖ **For cross-platform app development:**
  ➢ Flutter is used for **cross-platform** development.It is based on Dart programming language and with its built-in widgets provides **smooth** and **quick** performance.
  ➢ **Reactive** Native is a framework based on Javascript or TypeScript for creating mobile applications.

❖ **Implementation of search function:**
  ➢ Some companies offer sites free access to their search applications. Some paid versions are also available with more advanced features. For ex. FreeFind, Bravenet

- ❖ **QR/Barcode Scanner Working:**
  - ➢ Indipro's Barcode Scanner will convert the captured data from scanned barcodes into **documents, databases, worksheets**, etc. Collected data will be having **End-to-end encryption**.
  - ➢ By scanning the barcodes rather than typing product name,brand users time will be saved. If product info is not available in the app it will allow to **search on web**, with the help of **Product Number.**
  - ➢ **Data analytics** is used to determine whether the text can be encoded in alphanumeric,numeric ,byte mode.Encoding text results into **data codewords** which are 8 bit long.The product numbers can be stored as codewords.
- ❖ **Data Storage:**
  - ➢ DataBase can be created using **MySQL** and **php**.
  - ➢ Database server will be located in **secure climate controlled environment** and all entries at database will be recorded.
- ❖ **Security:**
  - ➢ Data encryption mechanisms **TLS(Transport Layer Security**) or **SSL (Secure Sockets Layer)** can be used to protect sites and user data as it is transmitted to from website.
  - ➢ Security of aap can be achieved by **Cryptography, permissions** and **secure IPC**
  - ➢ **Data monitoring** solutions can be used to get alerts for unusual activities

06 Novelty/Uniqueness

➤ Plenty of Indian Products and Brands Info at **one place** also shows **alternative Indian products** if fabricated **at every search.**

➤ **Business opportunity and idea suggestions** to registered manufacturers about production of products which are not manufactured in our India.

➤ Products **Comparison** will help Manufactures compare their with other products available in market products.

➤ Efficient search method available **(manual search, voice recognition or scan).**

➤ **Only Indian** companies are allowed to register.

➤ Information of only Indian products will be displayed.

➤ IndiPro will suggest best locations for manufacturing of respective products on the basis of **availability of land, water, electricity, transport, skilled workers, raw material, etc.**

➤ **Contribution of product in Indian Economy will be displayed on the basis of sell.**

07 Ease of Implementation

How long will it take to implement the solution?

On an average it will take **four** to **five** months to implement the solution.
- **Writing a project brief:** one or two weeks
- **Researching and discussing idea with developers:** four weeks
- **Design:** six to seven weeks
- **Development and prototyping:** six to ten weeks
- **Editing and improvement:** always throughout the process
- **Deploying to the app store:** two weeks

What are the hardships faced while implementing the solution?
1. **Development approach:** Choose the data wisely. Set a specific development approach and timeline from start to end
2. **Funding:** It is very important to have a fair idea of overall cost associated with the app.
3. **Performance:** app with less number of bugs and consumes little space on mobile device.

Shortcomings of the solution and effects:

The app/website will create a positive impact on India's **performance in the global market**.The app/website will help the customers to **know the origin** of food categories, clothing brands, toys,accessories,etc.. The app will be functional for these group of products. Testing the app first on few products gave us good results and all the required information. Significant value can also be delivered in the case of retailers that are specifically careful with selecting their suppliers. The app will be in touch with the and **local shops and manufactures,** new registration of local businesses will help the local people to gain **profits**. Alternatives for the non-Indian products will be provided. The app will be free for all customers. Brand owners has to pay monthly, depending on product sell.