

## **Idea/Approach Details**

**Ministry Category** : Skill Development and Entrepreneurship  
**Problem Statement** : PMKVY Dynamic Training Calendar App  
**Team Leader Name** : Sachin Aggarwal

**Problem Code** : #MSD6  
**College Code** : 1-4261798

## **Ideas/Approach**

This Android Mobile App will generate a Dynamic Training Calendar based on location and course preference of the user.

- **Approach** – The courses that are preferred by the user and offered in centers within the user's proximity will be retrieved from the available data. The retrieved courses are marked on calendar by the date of commencement/ending. User can switch between upcoming/undergoing/finished courses to change the calendar view accordingly. User may select a date on the calendar to see list of courses available on that date.

- **Core Features** – Dynamic Training Calendar, GPS based Navigation to Training Center, Download Course & Center Brochure, Placement Statistics, Reviews of Courses & Centers, Current demand for Course and Enquiry Mechanism.

- **Other Features** – Multilingual support & Text to Speech feature to cover larger user base, Mark Courses as Favorite to revisit them , Share courses with friends, Universal Search Functionality , News Feed, FAQs and Feedback.

**Technology Stack** - Android Studio & SDK, Retrofit Library, Indic Library for Multilingual Support , Aadhaar Auth API for authenticating enquiries (Stack India API), Google Fused Location API & Mobile Vision API.

# Use Case

The link for Use case Diagram of application is provided here - [🔗](#)

The various user interactions will be as follows –

1. **Login Screen** – Aadhaar Card based login to make enquiries (Guest session is available for all other features).
2. **Preference Screen (Refer Fig-1)** – Auto-Detection of Student/Employer location (or user may enter manually), Student qualifications are asked (to show courses by the student's eligibility), Student/Employer Preferred Course & Sector are asked (Multiple Selections are allowed).
3. **Dynamic Calendar Screen (Refer Fig-2)** – In Calendar View, user can switch between finished/undergoing/upcoming courses & select any date to see courses available on that date along with the basic information (user can be both student/employer).
4. **Detail Screen (Refer Fig-3)** – Training Center & Course details, Download Brochures, Mark Favorite, Share Course, Directions to Center, Seats Availability, Reviews & Course Eligibility (user may be both student/employer).
5. **Navigation Drawer** – About Program, View Favourites, FAQs, Give Suggestions, Training Partners and Settings.

Fig - 1

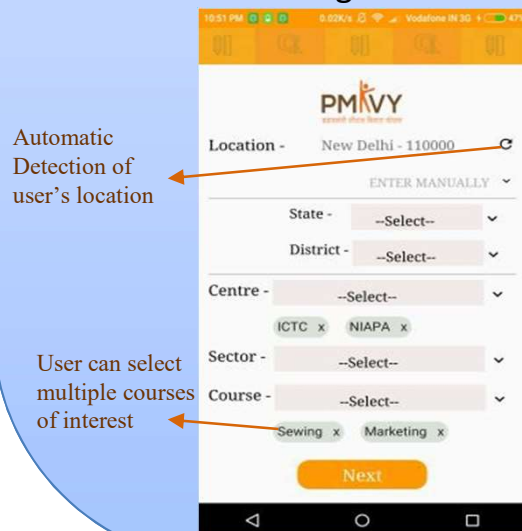


Fig - 2

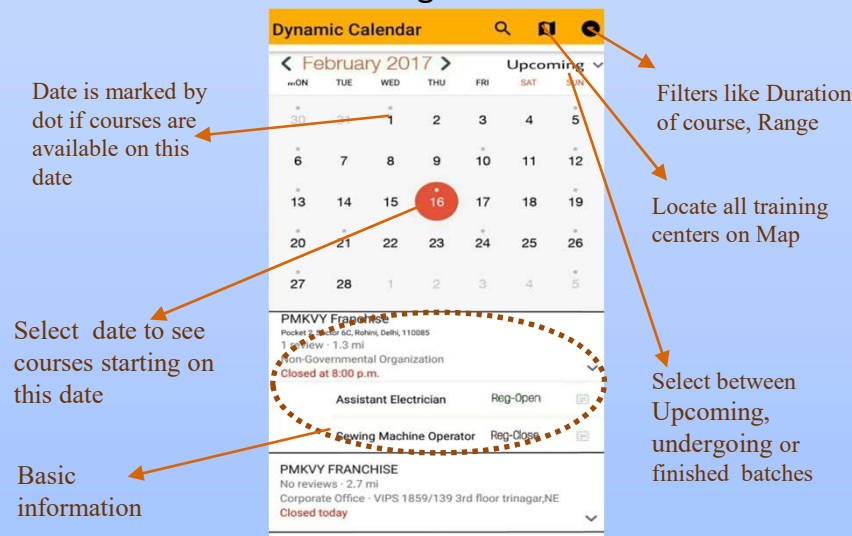
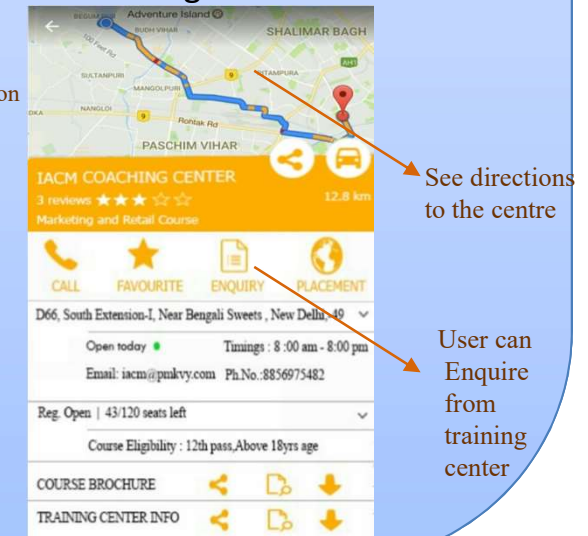


Fig - 3



**Dependencies** - For every training center, data of starting & closing dates of batches, data for Seats Available for Enrollment and Reviews from the enrolled students are required, IndiaStack Aadhar Auth API and Internet Connection.