



DIGITAL
APTECH PRIVATE LIMITED

Case Study

For **RoasterImport**

About the Project

RosterImport is a mobile application that allows pilots and cabin crews to access and stay up-to-date with their rosters via smartphones and other devices. Crews are not required to maintain a roster manually, and they can receive auto updates about any changes in the schedule. They can easily generate their rosters with necessary details and follow it on their smart devices.

The roster can be accessed both offline and online and integrated with Google Calendar, Outlook, Apple Calendar, etc. The CEO of RosterImport approached Digital Aptech to create a simplified, feature-rich app that would replace the need for maintaining a manual roster for flight crews across multiple airlines worldwide.

Client Details

Name: RosterImport

Industry: Aviation

Geographic Location:

Project Duration:

Problem Statement

- Airline crews had to manually enter the roster each time which was both cumbersome and time-consuming
- There wasn't any single platform where pilots and crews could view all roster-related data and updated information
- Airline crews had no platform to view or access their rosters remotely from any place anytime via a smart device

RosterImport Partnered with DAPL to:

- To develop a smooth and responsive app rich with features and with a user-friendly interface dedicated to building and managing a virtual roster for flight crews that would eliminate the need for maintaining paper rosters manually
- To design a mobile application for airline crew roster that could be easily accessed by all smartphone users

App Links

Android: https://play.google.com/store/apps/details?id=com.rosterimport.app&hl=en_US

iOS: <https://apps.apple.com/ca/app/roster-import/id1228187917>

Technology Used

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For Android:

- Language: Java
- IDE: Android Studio
- Minimum OS Support: Android API level 15 (Ice Cream Sandwich higher version 4.0.3)
- Device Supported: Android Phone/Tablet 7" and 10"
- Version Control - SCM: Git (Bitbucket)
- Orientation supported: Portrait
- Project management: Basecamp 2
- Local DB: SQL Lite
- App Subscription: IAP (In App Purchase for Google)

Extension Used: Third-party SDKs: Facebook SDK, Google SDK: FCM, Google Map SDK, Google Play Service

For iOS

- Language: Objective-C
- IDE: XCode
- Minimum OS Support: iOS 8.0
- Device Supported: iPhone/iPad (All)
- Version Control - SCM: Git (Bitbucket)
- Orientation supported: Portrait
- Project management: Basecamp 2
- Local DB: Core Data
- App Subscription: IAP (In App Purchase for Apple)

Extension Used: Third-party SDKs: Facebook SDK

Challenges

- The client wanted us to implement a real-time calendar in the app that would help users to stay updated with any changes that take place in their rosters
- The app can be accessed from anywhere that the users want, even when they are offline
- Users should be able to view and share flight statistics with their current as well as new roster
- The client wanted the app to have the option of synchronising and integrating the roster with Outlook, Google Calendar, and Apple Calendar.

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The Outcome of the Project

- Flight crews and pilots can easily track routes, flights, distance travelled for each roster. They could also share the statistics with friends, coworkers and others via social media if required
- Users get a notification of the newly published roster or other modifications in changes with an auto-check facility
- Crews can effortlessly synchronise and integrate their rosters Outlook, Google Calendar, Apple Calendar
- The app supports almost all major airlines of the world, as it uses Merlot, Jeppesen, Geneva, AIMS, etc.

Core Business Impact

Diversified Platform: Airline crews can use the app on different devices like smartphones, tablets, laptops, etc, without any compatibility issues

Customer Satisfaction: Users have been highly satisfied as they do not need to maintain paper rosters. They can access virtual rosters both offline and online and get notifications about any modifications

Dynamic Usability: The app supports rosters for crews of multiple airlines. So, the app has vast usability.

Engagement Model: Dedicated Resource Model