

# **ABC OMNI (360)**

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## **Decision Required**

As we possess a cross-platform application, particularly our first mobile cross-platform application, it is imperative to draft this decision document concerning the update and deployment/re-deployment processes for our mobile cross-platform applications.

This document will primarily address Ionic frameworks, as our application is constructed using this technology. Should you be perusing this document while utilizing another framework, please consider its contents with discernment.

#### **Current Status**

As interns from KDG we got the internship task to build the ABC 360 intern application where we combine the most intern applications together. As one of the requirements is deploying the app we are obliged to research what the best way is for an update and deployment flow.

## **Options**

### 1. Selected Deployment Options:

- App Store Deployment (iOS App Store, Google Play Store)
- Progressive Web App (PWA)
- Ionic Appflow (formerly Ionic Pro)

## 2. Excluded Options:

- Manual Deployment (Self-hosting, Email, QR Code): Ruled out due to potential security concerns and lack of centralized updates.
- Enterprise Distribution (Mobile Device Management MDM): Not applicable as it might force consultants to feel ABC locked.

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# App Store Deployment (iOS App Store, Google Play Store)

Submitting the app to official app stores for distribution. Users download and update the app through these platforms.

#### **Benefits:**

- Official distribution channels
- Centralized Updates
- Easy discovery for users

### Risks:

- Approval process delays
- Cost

## Progressive Web App (PWA)

A web-based application that offers app-like experiences. Users access it through web browsers, and updates occur automatically when users revisit the site.

#### **Benefits:**

- Cross-platform compatibility
- No approval process delays
- Easy updates

#### Risks:

- Limited access to devices features
- Less discoverability compared to App Store Deployment
- Browser Compatibility issues

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## Ionic Appflow (formerly Ionic Pro)

A platform offering automated build and deployment tools for Ionic apps. It provides features like continuous integration, native binary builds, and app management dashboard.

#### **Benefits:**

- Automated builds
- Deployment pipelines
- Native Binary Builds
- App management dashboard

#### Risks:

- Subscription Cost
- Reliance on Third-Party service
- Potential learning curve

## Manual Deployment (Self-hosting, Email, QR Code)

Distributing the app manually by hosting it on a server, sending it via email, or sharing a QR code. Users install and update the app outside of official channels.

## **Benefits:**

- Full control over deployment process
- No reliance on external services

#### Risks:

- Tedious process for users
- Potential security concerns
- Lack of centralized updates

## Enterprise Distribution (Mobile Device Management - MDM)

Distributing the app within an organization using MDM solutions. It allows centralized control and distribution of apps to employees' devices.

## **Benefits:**

- Control over app distribution within organization (forced updates)
- Centralized updates

#### Risks:

- Requires MDM infrastructure
- Can be seen as forcing workers to use the app

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### Recommendation

App store deployment involves submitting the application to official app stores for distribution. This approach offers several advantages, including the use of trusted distribution channels, centralized updates, and easy discovery for users. However, it comes with considerations such as potential delays due to the approval process of iOS and the need to pay for hosting the app online.

Progressive web apps (PWAs) are web-based applications that provide app-like experiences to users. Unlike traditional native apps, PWAs are accessed through web browsers, eliminating the need for app store approvals. They offer cross-platform compatibility and automatic updates, but they may have limitations in accessing certain device features and compatibility issues across different browsers since. Which means we will not be able to use the lonic's Capacitor plugins aswell...

Ionic Appflow offers a comprehensive solution for deploying and managing Ionic applications. It provides features such as automated builds, native binary generation, and a centralized app management dashboard. While Appflow streamlines the deployment process and enhances efficiency, it also comes with considerations such as subscription costs, however they also have a free plan which is sufficient for us. More about; <a href="https://ionic.io/appflow/pricing">https://ionic.io/appflow/pricing</a>

### Decision

This is not for sure yet as we don't have access to public... We will investigate Thon Hotel As we didn't got access to this repo we went with the below solution.

Option #3: Ionic Appflow - Just regular local builds is also possible so no need for Appflow really

We recommend utilizing Ionic Appflow for deploying and updating the cross-platform application built with the Ionic framework. Ionic Appflow offers several advantages over other options:

- Automated Build and Deployment: With Ionic Appflow, we can automate the build and deployment processes, reducing manual effort and ensuring consistency in the deployment pipeline.
- Native Binary Builds: Appflow allows us to generate native binaries for different platforms, ensuring optimal performance and native user experiences.
- App Management Dashboard: The platform provides a centralized dashboard for managing the application, making it easier to monitor deployments, track usage, and manage versions.

Overall, Ionic Appflow offers a comprehensive solution for deploying and updating Ionic applications, streamlining the process and enhancing efficiency.

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# **Next Steps**

If everyone has signed off, then we can proceed with our project and implement the first deployment with our empty template application. After that we can push a test update to the same deployed application. We should test this on both iOS and Android platforms.

# Sign Off

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