



# Mobile Developer Community Meetup

September 13, 2023



# Agenda



Land acknowledgment



Who we are



What we've been working on



Apple App Store Certificates



New mobile developer documentation site



# Land Acknowledgement

- I would like to acknowledge the land on which I work and is my home is the unceded territory of the Malahat people
- I would also like to make a book recommendation
- Laughing with the Trickster: On Sex, Death, and Accordions by Tomson Highway
- Tomson Highway is a Cree author, playwrite and musician
- 2022 Massey lecturer
  - Listen on CBC Ideas Podcast



# Who we are and what we do





# The Developer Experience Team



**Karl Hardin**  
Senior Director,  
Digital Delivery



**Jen Reiher**  
Senior Product  
Manager



**Shea Phillips**  
Architect



**Shiho Itagaki**  
SaaS Manager



**Edson Naves**  
Scrum Master



**Martha Edwards**  
Lead Service  
Designer



**Monica Granbois**  
Mobile App Devops  
Specialist



**Galen Gray**  
Technical Community  
Manager



# What we're working on

- Updated the Apple App Store Name
  - Was: His Majesty the King in the right of the Province of BC
  - Now: Government of British Columbia
- Updated mobile developer documentation
  - Demo later in presentation
- Meet with new teams curious or ready to create a mobile app



Apple  
Certificates



# Certificate Expiry Dates

Developer  
Program  
Certificate

Expires on  
Oct 3, 2023

Enterprise  
Program  
Certificate

Expires Oct  
5, 2024  
(Next year)



# What happens if an app uses an expired certificate?

- ✓ Your app will still be available on the App Store
- ✓ Your app will still be usable by your users
- ! You must upgrade to the latest certificate to upload new versions of your app



# Certificate Distribution Changes

## Previous Methods

- CI/CD Pipeline
- Email certificate to developers

## Fall 2023 Methods

- XCode managed certificates *New*
- CI/CD Pipeline
- Email certificate to developers
- Prefer first 2 options



# XCode managed certificates

- Why?
  - For teams not using CI/CD
  - Less friction in onboarding developers and teams.
    - You are not waiting on the Developer Experience team to send you the certificate and provisioning profile
  - We are not emailing certificates and passwords around
  - New signing certificates are automatically created 90 days before expiration



# How to use XCode Managed Certificates

- You can turn on XCode Manage Certificates at anytime
- 2 steps
  - App Managers: Give permission to your developers to “Access Cloud Managed Distribution Certificates”
  - Developers: In XCode select “Automatically manage signing.” in the Signing Page



# App Store Connect Permissions

App Managers:

In App Store Connect:

- Go to Users And Access Menu
- Select your developer
- Under Additional Resources select “Access to Cloud Managed Distribution Certificate

**Roles**

Admin       Finance       Sales  
 App Manager       Customer Support       Marketing       Developer

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**Additional Resources**

Access to Reports  
 Access to Certificates, Identifiers & Profiles.  
     Access to Cloud Managed Distribution Certificate  
     Access to Cloud Managed Developer ID Certificate  
 Create Apps

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**Permissions**

**App Privileges**

- Upload builds
- Edit app store details (Read Only)
- Manage TestFlight builds (Read Only)
- Manage TestFlight testers (internal only)
- Create in-app purchases
- Edit in-app purchases (Read Only)
- Manage Game Center
- Reply to and edit responses to customer reviews (Read Only)
- View metrics and diagnostic reports in the Xcode Organizer
- View app privacy details

**General Privileges**

- Manage sandbox testers

**Developer Privileges**

- Create and delete development certificates
- Download provisioning profiles
- Submit certificate signing requests
- Purchase and submit Technical Support Incidents
- Download beta software
- Eligible for other membership benefits
- Digitally sign with Apple Distribution certificate

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**Apps**

Test Build & Sign    Developer Experience Test App



# XCode Signing Option

Developers

In XCode:

- Go to Signing & Capabilities tab
- Select “Automatically manage signing”
- Select “Government of British Columbia” as the team

The screenshot shows the XCode project settings for a target named 'DevExMobileTestApp'. The 'Signing & Capabilities' tab is selected. Under the 'Release' configuration, the 'Signing' section is expanded, showing the following settings:

- Automatically manage signing: A note below states "Xcode will create and update profiles, app IDs, and certificates."
- Team: Set to "Government of British Columbia".
- Bundle Identifier: Set to "ca.bc.gov.DevExMobileTestApp".

Below the signing section, the 'ios' section is partially visible, showing options for 'Provisioning Profile' and 'Xcode Managed Profile'.



# GitHub Actions CI/CD Certificate: Developer Experience Actions

- Update the following bcgov GitHub organization's secrets:
  - BUILD\_CERTIFICATE\_BASE64
  - IOS\_BUILD\_CERTIFICATE\_PASSWD
- Create a new provisioning profile for your app
- Updates will happen on **Wednesday, Sept 20<sup>th</sup>**



# GitHub Actions Certificate: Mobile Dev Team Actions

- Teams that use GitHub Actions will need to do the following:
  - App Managers: Download the new provisioning profile from  
<https://developer.apple.com>
  - Update your GitHub Action to use the new provisioning profile
  - Contact the Developer Experience team ([Developer.Experience@gov.bc.ca](mailto:Developer.Experience@gov.bc.ca)) if there are issues downloading your provisioning profile



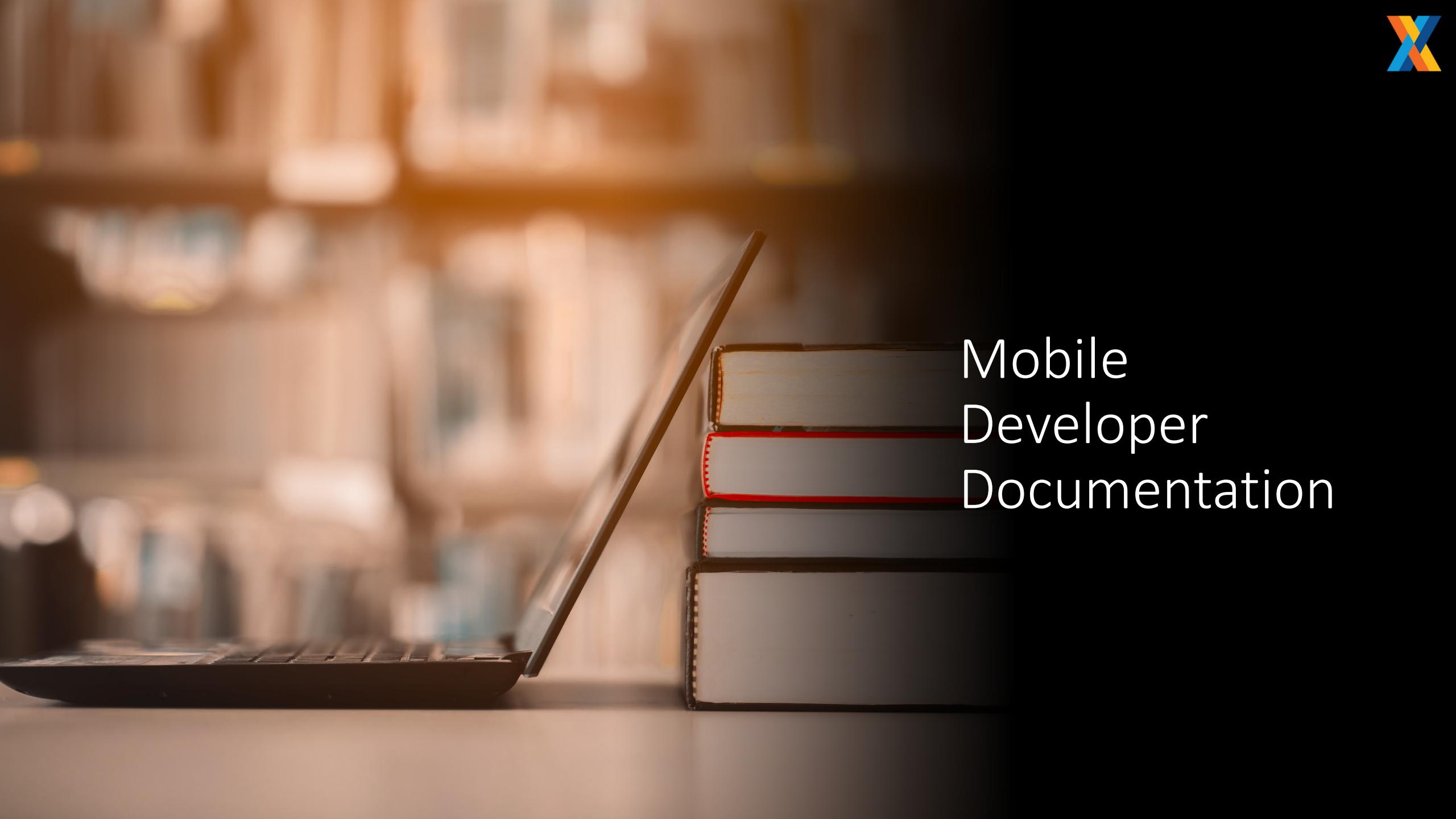
# Email Certificates to developers

- We will support those projects that are not able to use the previous two methods
- Please email us at [Developer.Experience@gov.bc.ca](mailto:Developer.Experience@gov.bc.ca) if you would like the certificate to be emailed to you



# Questions





# Mobile Developer Documentation



# Mobile Developer Documentation

- The mobile starter kit and wiki documentation has been rewritten into one source
- The new documentation is at: <https://mvp.developer.gov.bc.ca>
- This is part of a broader rewrite of the current DevHub site



# Documentation Update

- This is the first draft of the new documentation
- If anything is missing/unclear/wrong, please let us know!
- Contact us at [Developer.Experience@gov.bc.ca](mailto:Developer.Experience@gov.bc.ca)
- OR ...



# Create a PR for updates

- Do you see something in the docs you want to fix?
  - You can create a pull request by clicking on the edit symbol by the title

## Mobile app development



Edit button

The B.C. government provides many types of mobile apps to the public, like wildlife tracking and employment services. These apps are available for download on [Apple's App Store](#) and [Google's Play Store](#). We also create private apps used by employees for their job functions.



# Enterprise Development

- We have not included Enterprise Development in the documentation
- We are working with Apple to learn the best approaches for delivering internal apps
- We will work with enterprise program teams over the next year on how to manage/develop internal apps



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Questions

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# Next Meetup

## Spring 2024