



IEEE Accelerator Program

App Dev – Week 1
What is App Development ?

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IEEE Computer Society, MUJ

What exactly is Mobile App Development?

Anytime you plan, design, and develop a piece of software whose target audience comprises of Mobile Users as the majority, that development can be referred to as Mobile Development.

Similarly, the process of developing apps for a target audience that targets Mobile Users primarily is referred to as Mobile App Development

Why Mobile App Development and not something else?

- Comparatively more users in comparison to desktop.
- Can have greater potential when developed right.
- Provides a seamless user experience to the audience.
- Infinite Scope when targeting the correct audience.
- Often the only way of delivering the required feature set / experience.

Available Options



Native



Cross Platform



Web Apps

Native

- Pros
 - Unlimited Potential
 - No technical limitations for accessing platform features
 - Better documentation
 - Often more stable
- Cons
 - Would target only one platform
 - Basic development can get comprehensive



Cross Platform

- Pros
 - Same code, Different Platforms
 - Great for building UI Centric Apps
 - Have a definite future
- Cons
 - Performance can be a bit degraded*
 - Intricate development can easily get comprehensive*
 - Often accessing platform feature can be difficult or even impossible



Web Apps

- Pros
 - They're responsive to any screen size
 - PWAs can be indexed by search engines, easy discoverability
 - Cheaper to develop compared to native apps
- Cons
 - Often super limited by functionality
 - Specific features such as calling, GPS, camera, etc. are not well-developed in websites as they are in mobile apps.



How to get started with App Development?

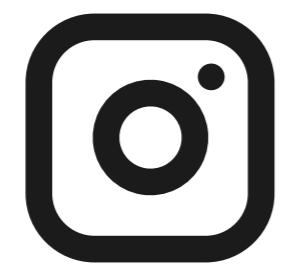
- Step 1: PLANNING PLANNING PLANNING
- Step 2: Research and Choose the technology which best suits your idea / project
- Step 3: Explore that particular technology
- Step 4: Learn from Online Resources
- Step 5: Develop

App Development Scope

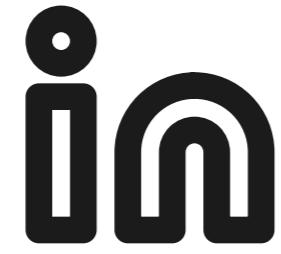
- App Development has a vast scope when it comes to real world applications :
 - For Native Developers :
 - Multitude of existing apps which need maintenance
 - Powerful platform specifics apps still waiting to be developed
 - For Cross Platform Developers :
 - Popular with Startups
 - Movers advantage of developing a new app with a new growing framework

Internship Opportunities

- Mainly of following types :
 - Amazing opportunities with growing startups who want to develop a new product.
 - Opportunities with existing industries who need to maintain their existing apps.
 - Research based where a team wants to implement a specific idea for an audience.



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App Development as a career in the long run...

Q. Can App Development be validated as a stable career?

A. Yes!

Q. Will it be okay if I just learn technology X?

A. No!

Q. What fields can I deviate to once I am good with App Development?

A. Many

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