



UNIVERSITY OF PADOVA
UNIVERSITÀ DEGLI STUDI DI PADOVA

Instant Developer Cloud

A cross-platform development framework

Mobile Programming and Multimedia

M.Sc. in Computer Science

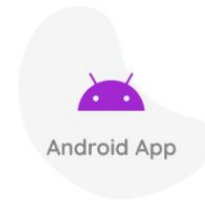
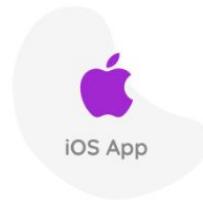
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❖ Development and deployment of:



- ❖ **Who use it:** freelance developers, enterprise IT teams
- ❖ **Costs:** both free and paid versions
- ❖ **Supported platforms:** Windows, macOS, Android, iOS
- ❖ **Languages:** standard web technologies (HTML, CSS, JavaScript)

Why did we choose it?



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- ❖ Not so well-known
- ❖ Continuous integration with modern technologies
- ❖ Help desk service and community forum for developers
- ❖ Well documented (even if available only in italian)
- ❖ Online platform with tutorials and courses



- ❖ Mobile Apps exploit engines of most used browser (e.g. Google Chrome, Microsoft Edge, Firefox, Safari)
- ❖ Source code (HTML, CSS, JavaScript) encapsulated in a container (named "Launcher")
 - Different kinds of Launcher
 - Different Launcher versions
- ❖ Access to device features via APIs provided by a JavaScript layer which interacts with Cordova plugins
- ❖ Updates

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HYBRID APPROACH

- ❖ <https://www.instantdeveloper.com/>
- ❖ <https://forum.instantdeveloper.com/index.php>
- ❖ <https://storage.googleapis.com/inde-downloads/doc/00-Introduzione%20a%20Instant%20Developer%20Cloud.pdf>
- ❖ <https://storage.googleapis.com/inde-downloads/doc/01-Struttura%20di%20un'applicazione.pdf>
- ❖ <https://storage.googleapis.com/inde-downloads/doc/15-Launcher%20e%20pubblicazione%20negli%20store.pdf>
- ❖ <https://storage.googleapis.com/inde-downloads/doc/20-Manuale%20PWA.pdf>
- ❖ <https://cordova.apache.org/docs/en/latest/guide/overview/index.html>
- ❖ R. Raj, S. B. Tolety. *A study on approaches to build cross-platform mobile applications and criteria to select appropriate approach*. Annual IEEE India Conference, INDICON '12, 2012, p. 625- 629.