

# Master Degree in Computer Science

## Thesis Upload Receipt

**Family name:**

Rovesti

**First name:**

Gabriel

**Matriculation number:**

2103389

**Thesis title:**

Designing an accessibility learning toolkit: bridging the gap between guidelines and implementation

**Thesis summary:**

This thesis presents AccessibleHub, an educational toolkit bridging the gap between accessibility guidelines (WCAG) and mobile app implementation. Through comparative analysis of React Native and Flutter frameworks, the research identifies key barriers: complex testing requirements, framework-specific APIs, and insufficient practical guidance. The study develops a comprehensive learning platform with step-by-step implementation guidance, code examples, and hands-on exercises. Validation with 60 participants demonstrates improved developer understanding and confidence in accessibility implementation. Key findings reveal that while 50% of analyzed applications support assistive content descriptions, only 2.08% effectively utilize accessibility APIs. AccessibleHub successfully addresses this gap through framework-specific guidance, practical patterns, and validation tools, advancing accessible mobile development practices.

**Timestamp:**

03/07/2025 19:20:18

**File ID:**

91dd00e1efbaf49547a3c5e26c93d369c5ee3b8f525c80ce635a69298200812c

---

**Disclaimer**

You understand that the final thesis document to be uploaded on Uniweb shall be PDF/A conformant.

Please be advised that the upload form you have used here does not check such conformance, which remains your duty to assure.