



## App Design & Development

Course guide 2026-2027

Semester	Fall (semester 1)
Inholland location	Haarlem
Inholland faculty	Engineering, Design and Computing
Language of instruction	English
Cycle	Bachelor level
Number of ECTS	30

## Courses

Subject title	ECTS	Course code
Project Design	6	1925ADPRDZ
Frontend Development 1: React & React Native	5	1925ADFD1Z
Psychology of Interaction	2	1925ADPOIZ
Research: Requirements & Design	2	1922MOBL8Z
Project Implementation	11	1925ADPRIZ
Frontend Development 2: Accessibility & Security	2	1925ADFD2Z
Research: Implementation & Validation	2	1922MOBL6Z

## Course contents

The goal of this minor is to teach students how to design, develop, and implement a cross-platform mobile app for an external client, with a strong focus on UX/UI and modern software development methodologies.

## Learning outcomes

The student is able to develop a cross-platform app in a process that spans from conducting interviews and performing requirements analysis to ultimately programming the app and making it available to others.

To achieve this goal, the student is able to:

- Gather and analyse requirements
- Advise on an appropriate solution
- Translate recommendations into a design that is ultimately delivered as an interactive prototype (user interface aspect) and a technical design (software aspect)
- Test whether the design and the final application meet the defined requirements.
- Implement the design as a React Native app
- Design and creating automated tests for both code and user interface
- Set up an appropriate CI/CD process

## Mode of delivery, planned activities and teaching methods

The core of the minor consists of a group project for an external client, which provides the opportunity to work on real-life realistic problems.

- Do research with your project group to determine requirements, translate these into a well-substantiated design for a mobile app, and develop the app in React Native.
- Supported by lectures on theory combined with practical exercises

## Prerequisites and co-requisites

Requirements:

- Bachelor ICT 3rd year or 4<sup>th</sup> year
- Experience with programming
- Experience with UX design software, preferably Figma

Recommended but not required:

- Experience with writing research papers
- Familiarity with Design thinking

## **Assessment methods and criteria**

- Project assessment for the project design phase, consisting of a written report and a presentation of the app design created in Figma.
- Project assessment for the project implementation phase, consisting of a written report, a code review and a presentation of the created app.
- Written exam for React, take-home assignment for React Native.
- Paper for Psychology of Interaction
- Paper for Frontend Development 2

All assessments must be completed with a sufficient grade (55 or higher).

## **Lecturer(s)**

Teachers of the Information Technology study program (Haarlem) and guest lecturers from the field of App Development provide lectures.

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