**Licenciatura em Engenharia de Telecomunicações e Informática**
**LETI/ISEP**
**Desenvolvimento de Software e Sistemas Móveis (DSSMV)**
2025/2026

# M2: ProjectReact

## Mobile Cross-platform Project

# 1    Introduction

In this assignment, students are required to develop of a project in a team throughout the duration of some weeks. This project aims at developing students' skills in the cross-platform mobile application implementation.

The assignment is to be made in groups of two elements, of the same PL class, (exceptions must be approved), and delivered until **Week 15**. The project is to be developed outside classes. Project presentation/demo will be during **Week 16**.

# 2    Themes/Topics

The mobile application developing in the context of this project cannot be limited to the mobile device. Such application has to **communicate with the world** . You can find a collection of free REST APIs for developers:

- `https://any-api.com/`

- `https://rapidapi.com/collection/list-of-free-apis`

You can find in the `https://193.136.62.24/swagger-ui.html` a REST API to manage a book library.

It must exploit the Create, Read, Update and Delete (CRUD) operations of REST APIs. Further, the use of more than one REST API is appreciated.

# 3    Project code

The mobile application has to be developed using React Native framework.
**The Project code has to be available at Bitbucket/GitHub for instructors**
. Further, students have to give to each of them administration permission. For that purpose, use the following email addresses to find them in Bitbucket/GitHub:

- `pbs@isep.ipp.pt`

- `caf@isep.ipp.pt`

# 4 Schedule

Here, we consider the first week day is on Monday and the last week day is on Sunday. In this schedule, all deadlines are at 23:59 of the Sunday of the respective week. Therefore, whenever we mention **Week x**, the deadline is on Sunday at 23:59. The schedule for this assignment is as follows:

- **Week 11**: Submit your **team** and **topic/theme** by email to pbs@isep.ipp.pt. The **email subject** has to be in the form **DSSMV_ProjectReact_xxxxxxxx _xxxxxxxx**, where **xxxxxxxx** are the student's numbers.
  **All theme/topic MUST be discussed and approved by one of the course professors**.

- **Week 12**: Create a Bitbucket/GitHub repository.

  The **repository name** has to be in the form **DSSMV_ProjectReact_xxxxxxxx _xxxxxxxx**, where **xxxxxxxx** are the student's numbers.

- **Week 13 and 14**: Project check point.

  The **project check point** will be carried out in PL classes. Each team has to present the project development progress at least once in these two weeks.

- **Week 15**: The final report must be submitted at Moodle.

  This document should be delivered in the form of a report conforming to the **Survey Template** as available in Moodle: **SurveyFormat (doc)** and **SurveyFormat(latex)** .

  The document can be written in **English** or in **Portuguese** and must contain the **Context, Analysis, Design, Implementation, and Tests** of the project.

  Only **one member** of the team should submit a file with the following name: **DSSMV _ProjectReact_ report_xxxxxxxx_ xxxxxxxx.pdf** , where **xxxxxxxx** are the student's numbers.

- **Week 16**: **Project presentation/demo** .

  The presentation schedule will be announced after final report submission.
  **The application demo has to be done using a real device (emulator is not allowed)**

# 5 Detailed Rubric

The project will be graded by the **Technical Report** (20%), and **Application** (80%).

## 5.1 Technical Report (20%)

| Criteria | Weight | Exemplary (100%) | Accomplished (75%) | Satisfactory (50%) | Poor (25%) |
|---|---|---|---|---|---|
| Context, Analysis, Design, Implementation and Tests | 100% | High quality description of the project. | Good quality description of the project. | Acceptable quality description of the project. | Poor description of the project. |

## 5.2 Application (80%)

The final grade (fg) of final application/demo presentation is computed as follows:

fg = (Checkpoint * 0.20 + Implementation * 0.80) * Factor.

| Criteria | Weight | Exemplary (100%) | Accomplished (75%) | Satisfactory (50%) | Poor (25%) |
|---|---|---|---|---|---|
| Checkpoint | 20% | Clearly defines the topic and its significance; Presents key characteristics with an analysis of relevant and accurate evidence; Good evidence of teamwork; **The Project application is executing.** | Clearly defines the topic or thesis. Presents key characteristics; Reasonable evidence of teamwork; **The Project application is executing.** | Defines the topic; Presents most key characteristics; Evidence of teamwork sketchy; **The Project application is executing.** | Does not clearly define the topic; Presents little (or no) key characteristics; Little evidence of teamwork; **The Project application is executing.** |
| Implementation and demon-stration | 80% | High quality and completeness of the system; Evidence shown well aligned with project report; | Good quality and completeness of the system; Evidence shown aligned with project report; | Some important features missing; Not totally aligned with objectives/state-ments in project report; | Very simple features implemented; Demonstration lacking evidence of properly working features/system. |
| Criteria | Weight | Exemplary (100%) | Accomplished (75%) | Satisfactory (50%) | Poor (25%) |
| Factor (per team member) | [0-1] | Demonstrates extensive knowledge of the topic by responding confidently, precisely and appropriately to all audience questions and feedback | Demonstrates knowledge of the topic by responding accurately and appropriately to questions and feedback | Demonstrates some knowledge of the topic by responding accurately and appropriately to questions and feedback; | Demonstrates incomplete knowledge of the topic by responding inaccurately and inappropriately to questions and feedback |

# 6    Themes/Topics and Teams

All approved themes/topics and teams are in the following list:

- 2DA

| Team Number | Team elements | Title/theme | Penalty |
| --- | --- | --- | --- |

- 2DB

| Team Number | Team elements | Title/theme | Penalty |
| --- | --- | --- | --- |

- 2DC

| Team Number | Team elements | Title/theme | Penalty |
| --- | --- | --- | --- |

- 2DD

| Team Number | Team elements | Title/theme | Penalty |
| --- | --- | --- | --- |