Departamento de Informática

CityPass: A Virtual Pass for Exploring Cities and for Decision Making
Project Proposal

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Objectives

The goal of this project is to create a virtual pass for city visitors (tourists) that will allow them to have one single application that simplifies the process of acquiring services such as visitors' packages, meals, accommodation, transportation, and entries to attractions (amongst others) and encourage its use by providing benefits such as discounts and priority queues. The system will collect information from users' behaviours to support the decision making for public administration institutions responsible for managing cities' visitors and cultural offerings. The solution should be cloud or blockchain based.

The work will likely focus on the use case of a particular city (e.g. Covilhã) but it should be designed to be reusable in other cities and also for reuse by institutions other than public administration.

The initial steps of the project (part of the literature review) will be to study previous works in this area (e.g. [1]) to acquire insights from proposed solutions.

Work plan and expected timeline

T1 Literature review and initial familiarisation with the tourism context
(week 1 → week 3)

T2 Choose technologies to be used and prepare work environment
(week 2 → week 4)

T3 Gather requirements and define design for the system
(week 2 → week 5)

T4 Implement and test the solution
(week 5 → week 13)

T5 Evaluation
(week 13)

T6 Report writing
(ongoing throughout the project with the final 2 weeks fully dedicated to report writing)

Expected Output

1. Project report

2. A mobile app for a virtual pass for city visitors with a back-end that collects all relevant data

3. Conference Paper (depending on results and time available)

Bibliography

[1] Ubiwhere, `http://tourism360.ubiwhere.com/en/`