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PlayGround

Test stuff here.

Introduction

Project Context

MADS4Engineering provides a project-based learning and intercultural multidisciplinary teamwork experience; the real-world challenge; the composition of the team; the relevance of multidisciplinary and intercultural collaboration.

Challenge and Objectives

Describe very briefly the challenge addressed; main project objective; key expected outcome.

Methodological Overview

Just a paragraph explaining that: Design Thinking supported problem framing and user-centred design; CRISP-DM structured the data science activities; Scrum supported project execution. No methodological details.

Report Structure

Chapter	Description
1	…
2	…
3	…
4	…
5	…
6	…
7	…
8	…

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State of the Art

This chapter provides the reader with the relevant technical-scientific background as well as existing related products and research, also known as the state of the art, in the field(s) of the project.

Introduction

Provide here an overview of the contents (structure) of this chapter.

These are examples of citations to books **[1]** and **[2]**, a chapter on a smart companion **[3]**, articles on IoT **[4]**, blimps **[5]**, cloud computing **[6]**, gas emissions **[7]**, pedestrian crossing behaviour **[8]**, smart bicycles **[9]** and diaper moisture **[10]**, and to Web resources **[11]**, **[12]** and **[13]**.

Domain Overview

Existing Solutions

Commercial solutions

Open-source solutions

Research prototypes

Compare selected solutions considering the requirements of your own solution

Relevant Technologies and Approaches

Data sources and acquisition

Data analysis and modelling techniques

Data visualisation techniques

UI/UX approaches

Development technologies

Gap Analysis

Summary of limitations of existing solutions

Identified opportunity

Positioning of the proposed solution

Design Implications

Summary

Provide here the conclusions of this chapter and make the bridge to the next chapter.

What did the you learn from the state of the art and how did it influence the proposed solution?

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Project Management

Provide here an overview of the contents (structure) of this chapter. Explain the project management approach your group followed and justify why you think it is a good approach.

Scope

Document the boundaries of your project. Document the product scope (the extent of what your project will produce) and the project Scope (summary of the work needed to produce it). Make sure you clearly define what is part of the project and what is outside of its scope, justifying as needed.

Time

Explain how you managed the schedule of your project. Document the key milestones of your project, mapping key phases to reference deadlines.

Cost

Describe your project budget and its key components. Explain how your budget was managed throughout the project. Document the planned vs. effective costs of your project.

Quality

Document quality metrics that will apply to your project deliverables, associated thresholds and how they should be reviewed.

People & Stakeholder Management

Enumerate all people relevant to your project, including the project team and key stakeholders. Document their roles and responsibilities. Document your stakeholder management plan and strategy.

Communications

Document how your team will manage communications, describing communication channels, meetings, etc.

Risk

Identify key risks (product and project level), evaluate them and define how they should be handled (responses) and monitored. Perform quantitative and qualitative risk analysis and use the results to define the appropriate risk responses.

Procurement

Document your procurement management strategy including make vs buy decisions, materials/services to be acquired, sources, costs, timings, etc.

Project Plan

Document the project schedule, and the key project phases, using a Gantt Chart. Highlight the key project phases and milestones.

Describe how your plan was mapped to multiple iterative sprints.

Document how the sprint backlog was planned and managed for each of the sprints you have created in Planner.

Describe how prioritization was done.

Document how the estimation process was implemented, and any underlying challenges.

Provide a summary of the sprints that were executed, along with sprint goals.

Sprint Outcomes

Include the outcomes of all sprint reviews (what was the sprint backlog, completion status, planned capacity vs. achieved velocity).

Sprint Evaluations

Include the summary of all the sprint retrospectives, including any actions implemented as part of the team's continuous improvement strategy.

Summary

Provide here the conclusions of this chapter and make the bridge to the next chapter.

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Marketing Plan

Introduction

Provide here an overview of the contents (structure) of this chapter.

Business Idea Formulation

Business Model

Market Analysis

SWOT Analysis

Strategy

Strategic Objectives

Segmentation and Targeting

Positioning

Marketing-Mix

Brand

Marketing Programmmes

Programmes

Budget

Control

Summary

Provide here the conclusions of this chapter and make the bridge to the next chapter.

Based on this market/economic analysis, the team decided to create <specify the type of product>

intended for <specify the market niche> because <specify here the relevant market-related reasons>. Consequently, the team decided to design a solution with the following <specify here the features added for market reasons>.

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[3] Alexandre Soares dos Reis, Elien Gielen, Ko Wopereis, Marcel Pasternak, Vaido Sooäär, Tobias Schneider, Abel J. Duarte, Benedita Malheiro, Jorge Justo, Cristina Ribeiro, Manuel F. Silva, Paulo Ferreira, Pedro Guedes, 2020. Smart Companion Pillow – An EPS@ISEP 2019 Project. *Robot 2019: Fourth Iberian Robotics Conference*, Cham: Springer International Publishing, pp.465–476, ISBN 978-3-030-36150-1.
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