POLITECNICO
MILANO 1863

Requirement Analysis and Specification Document

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1 Introduction

1.1 Purpose

Purpose: here we include the goals of the project

1.2 Scope

Scope: here we include an analysis of the world and of the shared phenomena

1.2.1 World Phenomena

1.2.2 Description of the given problem

1.2.3 Current system

1.2.4 Goals

Goals for customers

- Allow a customer to line up in a virtual queue;

    –

- Allow a customer to book a visit;

    –

- Allow a customer to logIn/singIn;

    –

- Allow a customer to access a store with a QR code;

    –

- Allow a customer to retrieve data about the queuing time;

    –

- alert the customers taking into account the time they need to get to the shop, alternatively, for longterm customers, this time could be inferred by the system based on an analysis of the previous visits;

    –

- Allow users to indicate the categories of items that they intend to buy;

Goals for managers

- Allow a manager to monitor the influx of clients;

    –

- Allow a manager to logIn/signIn;

    –

- Allow a manager to provide "fake tickets" (fallback option);

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- Allow a manager to specify the various options for his store (non so come dirlo.. intendo tipo dire quanta gente può entrare nel suo negozio, che categorie di alimenti esistono, etc...)

–

1.3 Definitions, acronyms and abbreviations

1.3.1 Definitions

1.3.2 Acronyms

1.3.3 Abbreviations

1.4 Revision history

1.5 References

1.6 Overview

2   Overall Description

Here you can see how to include an image in your document.

Here is the command to refer to another element (section, figure, table, ...) in the document: *As discussed in Section 1.6 and as shown in Figure 1, ...* Here is how to introduce a bibliographic citation [1]. Bibliographic references should be included in a `.bib` file.

Table generation is a bit complicated in Latex. You will soon become proficient, but to start you can rely on tools or external services. See for instance this https://www.tablesgenerator.com.
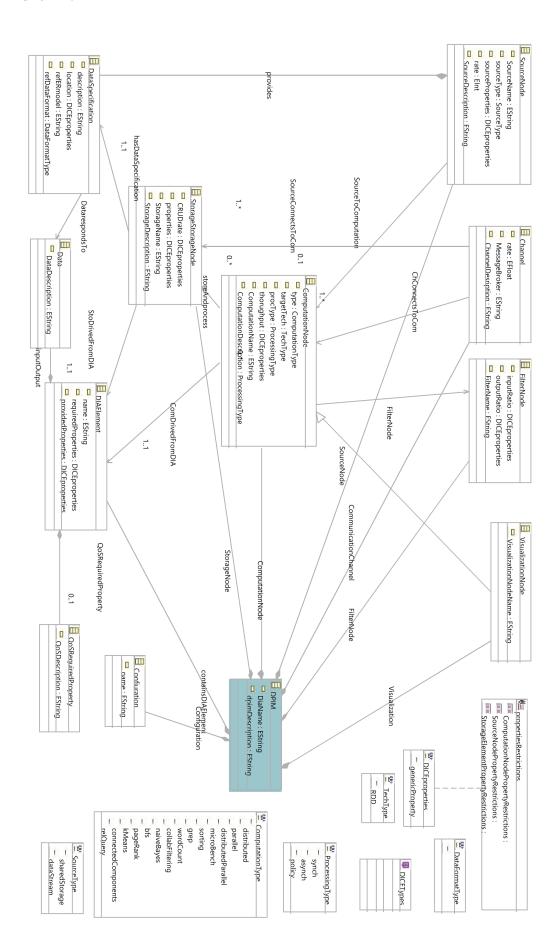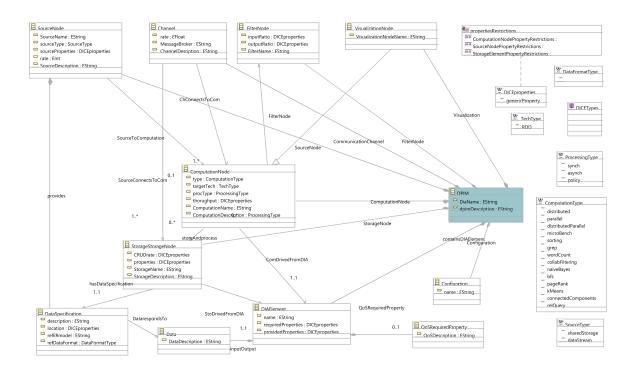
Figure 1: DICE DPIM metamodel.

Figure 2: DICE DPIM metamodel in portrait form.

3 Specific Requirements

Organize this section according to the rules defined in the project description.

4   Formal Analysis Using Alloy

Organize this section according to the rules defined in the project description.

5   Effort Spent

Provide here information about how much effort each group member spent in working at this document. We would appreciate details here.

References

[1] S. Bernardi, J. Merseguer, and D. C. Petriu. A dependability profile within MARTE. *Software and Systems Modeling*, 10(3):313–336, 2011.