# Open Rent

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# Contents

# Chapter 1

# Project Plan

## Introduction

This plan consist of the entire project plan to construct all the Group work home of the discipline Software engineer proposed by Fernando Antonio De Araujo Chacon from computer Science Department of University of Brasília (UnB).

This project is Licenced by Apache License.

## Project organization

See also https://github.com/flpinheiro/ProjetoES
This work is divided into the following content areas:

**Project Manager** Felipe Luís Pinheiro

**Analyst** Wanderlan Alves de Jesus Brito

**Architect** William Coelho da Silva

**Tester** Andrey Calaça Resende

## Project practices and measurements

The OpenUP component team will use OpenUP practices adapted to address the fact that we are doing content development rather than coding. Key artifacts include: Project defined process, project plan, iteration plan, tools, glossary, vision, system-wide requirements, usa-case model, use case, architecture notebook, user interface project, database physical project, infrastructure, test cases. Progress is tracked using two primary measurements using a point system. It is estimated that 1 point represents 2h of work:

- Project backlog: The project backlog shows progress relative to overall work to be done within the project.
- Iteration backlog: The iteration backlog shows progress relative to work intended for the current iteration.

## Project milestones and objectives

| Iteration | Primary objectives | milestone | Target velocity |
|---|---|---|---|
| I1 | Objectives<br>1. Project Plan<br>2. Iteration Plan 1 | 25/02/2021 to 04/03/2021 | 7 |
| I2 | Objectives<br>1. Iteration Plan 2<br>2. Use-case Model<br>3. Architecture Notebook<br>4. Smoke Test<br>5. Glossary | 05/03/2021 to 12/03/2021 | 7 |

## Deployment

## Lessons learned

# Chapter 2

# Project Defined Process

## Introduction

[The introduction of the Development Case provides an overview of the entire document. It includes the purpose, scope, definitions, acronyms, abbreviations, references, and overview of this Development Case.]

### Purpose

[Specify the purpose of this Development Case.]

### Scope

[A brief description of the scope of this Development Case; what Project(s) it is associated with and anything else that is affected or influenced by this document.]

#### Definitions, Acronyms, and Abbreviations

[This subsection provides the definitions of all terms, acronyms, and abbreviations required to properly interpret the Development Case. This information may be provided by reference to the project's Glossary.]

#### References

[This section is optional. Alternatively to having an explicit references section using the table below, write down the full name of the document you are referring to in-line with the text where if first appears, then add a hyperlink to the location where the referenced element is stored, and add a acronym (between parenthesis) right after the first appearance of that reference. On subsequent appearances of that reference, use the acronym only.

If you use this section, provide a complete list of all documents referenced elsewhere in the Development Case. Identify each document by title,

report number (if applicable), date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document.

NOTE: Be sure to include a reference to the version of the organizational process this development case is based on.]

| Reference Name | Owner/Author | Where Stored |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

[Source Process: Identify the process you are using as the base for this development case.]

[Identify the Work Products Addendum to this development case - if addendum is used.]

### Overview

[This subsection describes what the rest of the Development Case contains and explains how the document is organized.]

## Overview of the Development Case

### Lifecycle Model

[Briefly describe the lifecycle model employed by the project including descriptions of the milestones and their purpose. The purpose is to serve as an introduction to the rest of the development case, not to be a project plan.]

### Sample Iteration Plans

[This section is optional. Include sample iteration plans if they will be helpful for your project.

Your organizational process captured in Method Composer may provide capability patterns that can serve as templates for phase iteration plans. Your organization may have included a delivery process in your published version of the organizational process that can serve as a basis for your iteration plans.

If you are using a separate project management tool to create project plans, this section is not needed.]

### Inception Phase

[List the sample iteration plans used during Inception.]

#### Elaboration Phase

[List the sample iteration plans used during Elaboration.]

#### Construction Phase

[List the sample iteration plans used during Construction.]

#### Transition Phase

[List the sample iteration plans used during Transition.]

## Workflow

[This section describes the workflow of each of the development phases in your project lifecycle. For each phase, identify or describe the standard workflow that is used on this project. Following are some suggested ways to identify or describe the standard workflow:

The delivery process in your published organizational process includes activity diagrams for each development phase. You can copy and paste those diagrams here or describe how to locate them. Use the 'Notes on Workflow' section to document differences for your project. More difficult: rework the activity diagrams to accurately reflect the workflow that your project follows. In this case, there is no need for the 'Notes on Workflow' section, so it can be removed.]

#### Inception Phase

#### Notes on Inception Phase Workflow

[Describe any changes made to the standard workflow for this phase. Typical changes include adding or removing activities or tasks to describe project-specific ways of working.]

### Elaboration Phase

#### Notes on Elaboration Phase Workflow

[Describe any changes made to the standard workflow for this phase. Typical changes include adding or removing activities or tasks to describe project-specific ways of working.]

### Construction Phase

#### Notes on Construction Phase Workflow

[Describe any changes made to the standard workflow for this phase. Typical changes include adding or removing activities or tasks to describe project-specific ways of working.]

### Transition Phase

#### Notes on Transition Phase Workflow

[Describe any changes made to the standard workflow for this phase. Typical changes include adding or removing activities or tasks to describe project-specific ways of working.]

## Work Products

[A work product is an artifact, outcome, or deliverable. Provide a list of work products to be produced for the project, when the work product is created and completed, along with details of how the work product is reviewed (when appropriate), who reviews and approves the work product (RACI responsibility matrix) what template is used to create the work product, where the work product is kept or what tool is used to manage it. This can be accomplished by embedding a work product addendum to the development case, such as in spreadsheet format. Alternatively, you may use another method to provide the list of work products, either in this document or as an addendum to this document.

Note that if you keep the work products to be produced separately from this document (for example, using an addendum spreadsheet), you must be sure to maintain proper document control of the information.]

NOTE: The work product addendum is considered to be a part of this development case. The two documents are reviewed and approved as if they were one document.

## Reports

[List any reports that are useful for this project. Describe who uses the report and how it can be created.]

| Report | Audience | How Created/ Where Stored |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

## Roles

[This section is used for the following purposes:

To describe any changes in the set of roles; for example, it is common to refine the role stakeholder into more than one role. To map job positions in the organization to the roles in the organizational process. The reason for this is that in some development organizations there are job positions defined. If these job positions are commonly used and have a wide acceptance within the organization, it may be worth doing a mapping between the roles in the process and the job positions in the organization. Mapping job positions to roles makes it easier for people in the organization to understand how to employ the process. The mapping can also help people understand that roles are not job positions, a common misconception. Explanation of columns:

Role: Identify the roles used on your project. For example, it is common to refine the role stakeholder into more than one role. You might need to add new roles or clarify how each role is used in the organization by providing role names commonly used in your organization Process Role: Y if this is a role identified in the organizational process; N if it is not defined in the process. Applicability: Use this column to map job positions in the organization to the roles in the organizational process. Responsibilities: Describe any differences in responsibilities in the organization from those described in the process.] NOTE: The assignment of specific individuals to particular roles or job positions is documented in the Project Plan.

| Role | Process Role | Applicability | Responsibilities Different from Process |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

## Project-Specific Guidelines and Procedures

7. [Identify any guidelines and procedures used by the project that are not included in the organizational process. These should include any special review procedures, style or coding guidelines, etc. Modify the suggested table to fit your needs.]

| Guideline or Procedure | Owner | Used by | Where Stored |
|---|---|---|---|
| | | | |
| | | | |

# Chapter 3

# Iteration Plan

## 3.1 Sprit 1

### Key Milestone

| Milestone | Date |
|---|---|
| Iteration start | 25/02/2021 |
| Project Plan | |
| | |
| Iteration stop | 04/03/2021 |

### High-level objectives

- Complete Project Plan
- Complete First Iteration Plan
- Construct Jira Project Board
- Implement Git Repository Basic Structure

### Work Item assignments

The following Work Items will be addressed in this iteration:

| Name | Priority | Size estimate (points) | State | Reference material | Target iteration | Assigned to | Hours worked | Estimate of hours remaining |
|---|---|---|---|---|---|---|---|---|
| Project Plan | 1 | 2 | Complete | | 1 | Felipe | 4 | 0 |
| Iteration Plan week 1 | 1 | 2 | Complete | | 1 | Felipe | 4 | 0 |
| Jira Board | 1 | 2 | Complete | | 1 | Felipe | 4 | 0 |
| Git Repository | 1 | 2 | Complete | | 1 | Felipe | 4 | 0 |

### Issues

| Issue | Status | Notes |
|---|---|---|
| | | |

### Evaluation criteria

- Project Plan is complete
- First Iteration Plan is complete
- Jira board is complete
- Git Repository Basic Structure is complete

### Assessment

| Assessment target | Project Plan |
|---|---|
| Assessment Date | 25/02/2021 |
| Participants | Felipe, Wanderlan, William, Andrey |
| Project Status | Green |

| | |
|---|---|
| Assessment target | Git Repository Basic Structure |
| Assessment Date | 25/02/2021 |
| Participants | Felipe |
| Project Status | Green |

| | |
|---|---|
| Assessment target | Jira Board |
| Assessment Date | 25/02/2021 |
| Participants | Felipe |
| Project Status | Green |

**Assessment against objectives**

Todas as taregas especificadas foram realizadas conforme esperado.

**Work Items: Planned compared to actually completed**

Todas as tarefas foram realizadas durante a sprint dentro do prazo estimado.

**Assessment against Evaluation Criteria Test results**

O plano de projeto e o plano de iteração foram completamente realizados.

**Other concerns and deviations**

Não houve outras avaliações a serem realizadas.

## 3.2 Sprit 2

### Key Milestone

| Milestone | Date |
|---|---|
| Iteration start | 05/03/2021 |
| Modelo de casos de uso (use-case model) | |
| Descrição da arquitetura do software (architecture notebook) | |
| Teste fumaça (smoke test) | |
| Glossary | |
| Iteration stop | 17/03/2021 |

### High-level objectives

- Delivery use-case model
- Delivery Smoke test
- Delivery architecture notebook
- Delivery Glossary

### Work Item assignments

The following Work Items will be addressed in this iteration:

| Name | Priority | Size estimate (points) | State | Reference material | Target iteration | Assigned to | Hours worked | Estimate of hours remaining |
|---|---|---|---|---|---|---|---|---|
| Use Case model | 1 | 4 | On Work | | 2 | Wanderlan | 4 | 4 |
| Smoke Test | 1 | 4 | Complete | | 2 | Andrey | 8 | 0 |
| Architecture Notebook | 1 | 4 | Complete | | 2 | Willian | 8 | 0 |
| Glossary | 1 | 4 | Complete | | 2 | Felipe | 8 | 0 |

### Issues

| Issue | Status | Notes |
|---|---|---|
| | | |

### Evaluation criteria

### Assessment

| Assessment target | Use case Model |
|---|---|
| Assessment Date | 05/03/2021 |
| Participants | Wanderlan |
| Project Status | Green |

| Assessment target | Smoke Test |
|---|---|
| Assessment Date | 05/03/2021 |
| Participants | Andrey |
| Project Status | Green |

| | |
|---|---|
| Assessment target | Architecture Notebook |
| Assessment Date | 05/03/2021 |
| Participants | Willian |
| Project Status | Green |

| | |
|---|---|
| Assessment target | Glossary |
| Assessment Date | 05/03/2021 |
| Participants | Felipe |
| Project Status | Green |

**Assessment against objectives**

Todos os itens da sprit foram entregues dentro do prazo, conforme o especificado.

**Work Items: Planned compared to actually completed**

Todos os itens da sprit foram entregues dentro do prazo, conforme o especificado.

**Assessment against Evaluation Criteria Test results**

**Other concerns and deviations**

Nada a reportar.

## 3.3 Sprit 3

### Key Milestone

| Milestone | Date |
|---|---|
| Iteration start | 25/03/2021 |
| project defined process | |
| | |
| Iteration stop | 02/04/2021 |

### High-level objectives

- project defined process

### Work Item assignments

The following Work Items will be addressed in this iteration:

| Name | Priority | Size estimate (points) | State | Reference material | Target iteration | Assigned to | Hours worked | Estimate of hours remaining |
|---|---|---|---|---|---|---|---|---|
| project defined process | 1 | 4 | undone | | 3 | Felipe | 0 | 8 |

### Issues

| Issue | Status | Notes |
|---|---|---|
| | | |

### Evaluation criteria

- project defined process

### Assessment

| Assessment target | project defined process |
|---|---|
| Assessment Date | 02/04/2021 |
| Participants | Felipe |
| Project Status | Green |

**Assessment against objectives**

**Work Items: Planned compared to actually completed**

**Assessment against Evaluation Criteria Test results**

**Other concerns and deviations**

# Chapter 4

# Architecture Notebook

## Purpose

Este processo de elaboração de software tem como filosofia a assertividade, velocidade, a boa qualidade, cumprimento de prazos estipulados, cumprimento integral das atividades delegadas para os colaboradores, além da eficiência e eficácia.

Foi decidido separar todo o desenvolvimento para os quatro colaboradores deste projeto, cada um com funções definidas, há um gerente de projeto, um arquiteto de software, um analista e um testador, com algumas restrições, todos devem se ajudar de acordo com o possível, porém sem que isso interfira no seu trabalho e sem tomar para si as tarefas de terceiros, buscando assim a maior velocidade e eficiência possível ao projeto a ser desenvolvido.

Com isso, a ferramenta a ser desenvolvida tem o papel de facilitar o uso de anunciamento de aluguéis, negociações e cobranças, com a apresentação de propostas e descrição dos imóveis.

## Architectural goals and philosophy

O objetivo é construir um software que preste suporte ao aluguel de imóveis, sendo que proprietários podem anunciar, com várias informações sobre o objeto em questão, o interessado pode fazer propostas e conversar diretamente com o proprietário. Este dois precisando ser autenticados para tais funções, contendo dados pessoais para a sua precisa identificação em caso de imprevistos.

O software precisa ser capaz de entregar uma boa performance em qualquer dispositivo a ser utilizado, seja um computador potente ou fraco, uma vez que não é possível cobrar que o proprietário ou interessado tenha um bom hardware para executar o software, apenas requisitos mínimos, também deve ter um visual compreensivo, fácil de ser usado, moderno e leve, as-

sim evitando engasgos à aplicação que poderiam ser evitados. É necessário também que o software seja capaz o suficiente para comportar futuras atualizações pedidas pelos usuários do serviços e que façam sentido a proposta da aplicação.

Um problema que pode se tornar crítico é o de um proprietário ter várias propostas a se analisar e também muitos imóveis já alugados, é preciso fazer com que seja facilitada a visualização dos imóveis de maneira sucinta, para que possa se identificar de pronto de qual imóvel se trata e qual a condição dele.

## Architectural Mechanisms

É necessário também a identificação de mecanismos arquitetônicos, que nada mais são que soluções comuns para problemas comuns.

1 - Uma boa listagem de imóveis.

É necessário que os imóveis listados sejam adequados para os interessados, com base na sua pretensão de pagamento, localização do interessado e do imóvel, se tem estrutura para crianças ou para animais domésticos, no geral, suporte a filtros pré-aplicados.

2 - Visualização do preço do aluguel

Omitir do interessado o preço mínimo do aluguel informado pelo proprietário, e exibir apenas o desejado, se não há motivos para o interessado oferecer mais do que o mínimo, e então, assim, o proprietário só teria propostas com o valor mínimo, tornando a negociação bastante prejudicada.

# Chapter 5

# Smoke test

The following tests are divided into 4 categories:

1. Log in system tests
2. Property tests
3. Bid tests
4. General Services

## 1.1 – Can create user

**Description** : A properly filled sign up form is submitted. It's expected that a new user's account gets created on the database.

**Pre-conditions** : There must be no other account with the same email on the database.

**Post-conditions** : All of the new account's information should be inserted on the database and the user should be able to log in with them.

**Data required** : Valid email, phone number, name and password.

## 1.2 – Can log in

**Description** : A properly filled sign in form is submitted. It's expected that the authenticated user can now access his account's information.

**Pre-conditions** : There must be an existing account on the database to log in.

**Post-conditions** : The user should be now authenticated and should be able to use the system's services.

**Data required** : Registered account with valid email, phone number, name and password.

## 1.3 – Can delete account

**Description** : An authenticated user tries to delete his account. It's expected that the user's information gets deleted from the database along with all associated bids and registered properties.

**Pre-conditions** : There must be an authenticated user and whose account information is properly registered with the bank

**Post-conditions** : There should be nothing left from that user on the database.

**Data required** : Registered account with valid email, phone number, name and password, there may be bids or properties associated with the account.

## 2.1 - Can register property

**Description** : An authenticated user submits a properly completed property registration form. A new property is created in the database associated with that user.

**Pre-conditions** : The user must be authenticated and must provide every information on the property registration form.

**Post-conditions** : A new property and its details should be created in the database.

**Data required** : Property class, description, address, maximum number of guests, start date of the availability period, end date of the availability period, and minimum daily rate.

## 2.2 – Can delete property

**Description** : An authenticated user tries to delete a property registered by him. That property and its associated bids should be deleted from the database.

**Pre-conditions** : The authenticated user must have a registered property.

**Post-conditions** : The property and its associated proposals should have been excluded from the database.

**Data required** : Previously registered property.

## 2.3 – Can edit property details

**Description** : An user tries to edit the details of one of its properties. The database should be updated with the new data.

**Pre-conditions** : The authenticated user must have a registered property.

**Post-conditions** : The property and its details should have been updated on the database.

**Data required** : Previously registered property.

## 2.4 – Can list associated bids

**Description** : An authenticated user tries to list every bid associated with his property.

**Pre-conditions** : The authenticated user must have a registered property and at least one associated bid.

**Post-conditions** : A list of bids should be displayed.

**Data required** : Previously registered property with at least one associated bid.

## 2.4.1 – Can see bids details

**Description** : An authenticated user tries to see the details of one bid associated with his property. A list with those details should be shown.

**Pre-conditions** : Test 2.4 must have been successful.

**Post-conditions** : The bid's details should be displayed.

**Data required** : Previously registered property with at least one associated bid.

## 3.1 – Can register proposal

**Description** : An authenticated user submits a properly completed proposal registration form associated to a property. A new proposal associated to that property should be created in the database.

**Pre-conditions** : The user must be authenticated and must provide every information on the proposal registration form.

**Post-conditions** : A new associated proposal should be created in the database.

**Data required** : Rental period start date, rental period end date, guests number, proposed daily rate.

## 3.2 – Can list proposals

**Description** : An authenticated user tries to list his registered proposals. A list of proposals should be displayed.

**Pre-conditions** : The authenticated user must have a registered proposal.

**Post-conditions** : A list of proposals should be displayed.

**Data required** : Previously registered proposal.

### 3.2.1 – Can see proposal details

**Description** : A authenticated user tries to see the details of one his registered proposals. A list with those details should be shown.

**Pre-conditions** : Test 3.2 must have been successful.

**Post-conditions** : A list with the proposal details should be displayed.

**Data required** : Previously registered proposal.

### 3.2.2 – Can delete proposal

**Description** : An authenticated user tries to delete one of his registered proposals. That proposal and its details should be excluded from the database.

**Pre-conditions** : The authenticated user must have a registered proposal.

**Post-conditions** : There should be no more data about that proposal in the database.

**Data required** : Previously registered proposal.

## 4.1 – Can list properties

**Description** : An user tries to list all properties. It's expected that a list of properties gets displayed.

**Pre-conditions** : There must be at least one property registered in the system.

**Post-conditions** : A list of properties is shown.

**Data required** : Previously registered properties.

### 4.1.1 – Can see property details

**Description** : An user tries to see a property details. A list of those details should be displayed.

**Pre-conditions** : Test 4.1 must have been successful.

**Post-conditions** : A list of details should be displayed.

**Data required** : Previously registered property.