

POLITECNICO DI MILANO



DIGITAL PROJECT MANAGEMENT 2020-2021
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HOMEWORK 2

WORK BREAKDOWN STRUCTURE

Group ID

8

Project Title



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1. WBS

1.1. Outline Format

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1	Project Management	
1.1	Budget Management	
1.2	Risk Management	
1.3	Change Management	
1.4	Communication Management	
	1.4.1	<i>Stakeholders Analysis</i>
1.5	Team Building & Procurement Management	
	1.5.1	<i>Interviews Management</i>

2	Requirement Gathering	
2.1	Requirements Elicitation	
	2.1.1	<i>Workshops With Stakeholders Planning</i>
2.2	Ux Interaction Design	
2.3	Prototype Realization	
	2.3.1	<i>Puppet App Development</i>
2.4	Prototype Submission	
2.5	Requirements Review	

3	Analysis & Design	
3.1	Requirements Analysis	
	3.1.1	<i>RASD Release</i>
3.2	System Design	
	3.2.1	<i>DD Release</i>
3.3	Critical Review	
3.4	Dev Plan Management	

4 Back End Development

4.1 Database Setup

4.2 Functions Implementation

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| 4.2.1 | <i>Structure Search Eng. Imp.</i> |
| 4.2.2 | <i>Reservation Booking Eng. Imp.</i> |
| 4.2.3 | <i>Payment Manager Sys. Imp.</i> |
| 4.2.4 | <i>Structure Review Eng. Imp.</i> |
| 4.2.5 | <i>Chat System Imp.</i> |

4.3 Unit Test

5 Front End Development

5.1 Baton Pass Meetings

5.2 Dev Plan Rescheduling

5.3 Apps Implementation

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| 5.3.1 | <i>Web App Imp.</i> |
| 5.3.2 | <i>Mobile App Imp.</i> |

5.4 Unit Test

6 Integration

6.1 System Integration & Test

6.2 Performance Test

6.3 Beta Submission

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|-------|--------------------------|
| 6.3.1 | <i>Testers Selection</i> |
| 6.3.2 | <i>System Bug Fix</i> |

6.4 User Acceptance Test

7 Deployment & Close Up

7.1 Documentation Editing

7.2 Assistance Team Training

7.3 Deployment Operations

7.4 Close Up Operations

1.2. WBS Dictionary

1	Project Management	
1.1	Budget Management	<i>Planning, managing and tracking future expenses.</i>
1.2	Risk Management	<i>Evaluation of risks and identification of procedures to minimize its impact on the project.</i>
1.3	Change Management	<i>Planning the activities for ensure a beneficial transition to the system.</i>
1.4	Communication Management	<i>Planning, monitoring, and revision of all the channels of communication with the stakeholders.</i>
1.4.1	Stakeholders Analysis	<i>Identification, classification and analysis of all the stakeholders.</i>
1.5	Team Building & Procurement Management	<i>Planning of all procurement and recruiting of the development team.</i>
1.5.1	Interviews Management	<i>Human research activity related to the individuation of the development team members.</i>
2	Requirement Gathering	
2.1	Requirements Elicitation	<i>Planning extraction, inspection and elaboration of all the requirements.</i>
2.1.1	Workshops With Stakeholders Planning	<i>Planning the activity with the stakeholders to achieve the most complete set of requirements.</i>
2.2	Ux Interaction Design	<i>Identification, analysis and development of clear guidelines for the Ux interaction development.</i>
2.3	Prototype Realization	<i>Realization of a tangible object to provoke the coming out of hidden requirements.</i>
2.3.1	Puppet App Development	<i>Realization of a stubbed GUI only version of the Apps, with a rail-constrained experience.</i>
2.4	Prototype Submission	<i>Planning and management of activities related to the puppet App test with the stakeholders.</i>
2.5	Requirements Review	<i>Reshaping of the requirements in light of what got from 2.4 and expert's analysis.</i>
3	Analysis & Design	
3.1	Requirements Analysis	<i>Analysis of what got from the point 2 to achieve a formal description of the user's needs.</i>
3.1.1	RASD Release	<i>Realization of the document to describe the system in terms of possible uses and requirements.</i>
3.2	System Design	<i>Analysis of the RASD to achieve a consistent, detailed and technical description of the system.</i>
3.2.1	DD Release	<i>Realization of the document with aspects and functionalities of the system-to-be.</i>
3.3	Critical Review	<i>Planning of meetings with field experts to revise and fix the RASD and the DD.</i>
3.4	Dev Plan Management	<i>Planning of the two development phases.</i>
4	Back End Development	
4.1	Database Setup	<i>Managing the selection, acquisition and setup operations of the Database as a service.</i>
4.2	Functions Implementation	<i>Managing of the development of all the operations required to get a functional system server.</i>
4.2.1	Structure Search Eng. Imp.	<i>Implementation of the deliverable D2.</i>
4.2.2	Reservation Booking Eng. Imp.	<i>Implementation of the deliverable D3.</i>
4.2.3	Payment Manager Sys. Imp.	<i>Implementation of the deliverable D4.</i>
4.2.4	Structure Review Eng. Imp.	<i>Implementation of the deliverable D5.</i>
4.2.5	Chat System Imp.	<i>Implementation of the deliverable D6.</i>
4.3	Unit Test	<i>Testing of all the code as stand-alone components.</i>
5	Front End Development	
5.1	Baton Pass Meetings	<i>Planning the team change and the meetings required to the fully comprehension of the work done.</i>
5.2	Dev Plan Rescheduling	<i>Rescheduling of the development to match the current state of the project.</i>
5.3	Apps Implementation	<i>Managing of the development of all the operations required to get the two Apps.</i>
5.3.1	Web App Imp.	<i>Implementation of the deliverable D7.</i>
5.3.2	Mobile App Imp.	<i>Implementation of the deliverable D8.</i>
5.4	Unit Test	<i>Testing of all the code as stand-alone components.</i>
6	Integration	
6.1	System Integration & Test	<i>Integration of the system and execution of all the use-cases tests.</i>
6.2	Performance Test	<i>Analysis of the system to assess the established hw&sw requirements.</i>
6.3	Beta Submission	<i>Managing operation to start the testing by a selected group of petguesthouse holders.</i>
6.3.1	Testers Selection	<i>Planning all the activities in order to get a valid set of test candidates.</i>
6.3.2	System Bug Fix	<i>Fixing of all the bugs and problems found in the 6.3 phase.</i>
6.4	User Acceptance Test	<i>Formal test of acceptance by the stakeholders on the work done.</i>
7	Deployment & Close Up	
7.1	Documentation Editing	<i>Editing of all the documentation needed by the maintenance team and the final users.</i>
7.2	Assistance Team Training	<i>Training of all the assistance operators.</i>
7.3	Deployment Operations	<i>Deployment of the Apps on the web and app-stores.</i>
7.4	Close Up Operations	<i>Final operations to close up the project.</i>

1.3. Chart Format

