

Dorms Management System at JUST



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Course: SE440 - Project Management

Date: 10/12/2015

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Introduction

Each system in the world is created for improvement, organization or to solve a particular problem.

The dorms system in JUST is one of the important regulations that deal with the multiple categories.

This system suffers from a lack of organization and some of the services that do not provide full ease and convenience for all users. these problems hard to control and fixing it manually.

From here, we will present the Dorms management system.

This system will organize and manage students dorm in JUST, the system aims to use electronic registration instead manual registration, provide a suitable and safe environment and cover all the requirements so that students feel the greatest comfort and safety, also this project aims to provide a suitable environment to the employees to do their jobs to the fullest.

1.1 Mission

Redefine Dorms, and make it home that makes students feel safe and convenient, and enable them to realise their full creativity.

1.2 Scope

The system organizes the dorms in Jordan University of Science and Technology.

It is a web service system that will provide electronic services for the dorm student's and will manage, organize the dorms.

The aim of making this project on web is to achieve the availability of the services almost all the time and from anywhere.

This system will include services that will organize Rooms Services, transportation inside and outside the university, security, cafeteria and basic services like registration and booking.

1.3 Glossary

API	Application Programming Interface
Documents	Residence instructions and regulations, application form, contract and authorization
Downtown	Irbid city
Registered	A female student who have an active room in the dorms
Room facilities	Kitchen, Bathroom, Study room and Restroom
ID	Identification
SOW	Statement Of Work
WBS	Work breakdown schedule
JUST	Jordan university of science and technology
ER diagram	Entity–relationship model
Administrator	Dorm's manager

Project charter

2.1 Vision

To be the reference for Dorms standards and students comfort.

2.2 Objectives

1. Make JUST dorms no.1 in Jordan within 3 years.
2. Make the work environment for employees one of Top 5 in Jordan within 3 years.
3. Achieve a strong reliable E-system that satisfies students without leaving their rooms.

2.3 Project Milestones

1. Finishing first document (Introduction, WPS, and project charter).
2. Complete designing the website.
3. Complete implementing the website.
4. Complete testing the website.
5. Ending the project, delivering it to the customer with acceptance from both project leader and Dorms manager.

Time table for milestones and other critical tasks:

No.	milestone	Deadline (DD/MM/YY)	Verification
1	Finishing first document	10/11/2015	Project manger
2	Complete designing the website	21/11/2015	Project manger
3	Complete implementing the website	3/12/2015	Project manger
4	Complete testing	10/12/2015	Project manger
5	Ending the project	10/12/2015	Project manger

2.4 Assumptions

1. The majority of services in dorms are available from 8:00 Am to 8:00 pm.
2. New needs that may arise for students must be considered in the best way.
3. Resources are available without any kind of lack of them.
4. Dorms have a stable reliable internet connection.

2.5 Constraints

constraint			
Triple constraint (Project management triangle)	Scope	1. It is a web service system that will provide electronic services for the dorm student's and will manage, organize the dorms.	
		2. The aim of making this project on web is to achieve the availability of the services almost all the time and from anywhere.	
	Time	3. This system will include services that will organize Rooms Services, transportation inside and outside the university, security, Cafeteria and basic services like registration and booking.	
		Finishing first document	10/11/2015
		Complete designing the website	21/11/2015
		Complete implementing the website	3/12/2015
		Complete testing	10/12/2015
		Ending the project	10/12/2015

	Cost	<ul style="list-style-type: none"> The project is a university project: so there is no material cost. But in this case: cost is the effort that is being exerted by the team members involved in the project. The cost is measure by the number of actual hours spent by team in preparing for the project. The proportion of the number of hours spent by each member in each stage of the project ranging. Average number of hours expected efforts by each member is 10 hours per week. 	
		This table shows the total cost of each phase of the project.	
		Finishing first document	45 hours
		Complete designing the website	15 hours
		implementing the website	30 hours
		Complete testing	15 hours
Quality	<ul style="list-style-type: none"> Each element of the project management triangle has been identified in proportion with the rest, to give the best possible quality. The completion of each element as specified above: Gives the best quality can be expected from the project. 		

2.6 Risks

1. Some of the team members have limit knowledge of software engineering.
2. Problem in managing the whole project time which may lead to delay in submission.
3. Some of team members may misunderstand the requirements, which will lead to wrong work which is a waste of time.

4. Having one or more negative team member who does not want to work, just have to.
5. Sometimes we used to repeat the same point for several times in several ways in order to make every one understand it.
6. In coding part we used template, it was a little bit difficult to find a suitable one, we used to make some changes too.
7. When we want to test the code the system go down.
8. The system gets hacked during implementation.
9. On testing, we figure out that our system is not user friendly.
10. There is no trust between the team members, especially from the manager side.

Project Organization

3.1 Stakeholder

1. Registered students.
2. Administrative staff:
 - Supervisors.
 - Managers.
3. Website users
4. Employees:
 - Rooms Services staff.
 - Security staff.
 - Cafeteria staff
 - Bus drivers

3.2 project manager

- Alaa abu hantash

3.3 Project sponsor

Jordan University of Science and Technology

3.4 Project team

1. Ahmed kalefah
2. Alaa abu hantash
3. Ammar omar
4. Iman Abu Ishqair
5. Mais Tawalbeh
6. Mohammad Munzer
7. Yousef Hadder

4.1 Purpose

Achieving a stable reliable E-system in JUST dorms that manages and organizes services, satisfies both students and employees, and meets their needs.

4.2 Scope

The system organizes the dorms in Jordan University of Science and Technology.

It is a web service system that will provide electronic services for the dorm student's and will manage, organize the dorms.

The aim of making this project on web is to achieve the availability of the services almost all the time and from anywhere.

This system will include services that will organize Rooms Services, transportation inside and outside the university, security, Cafeteria and basic services like registration and booking.

4.3 Operating Environment

The system is web-based and will be hosted by web server on the JUST website (www.just.edu.jo). The website can be viewed by any web browser from desktop or mobile.

The system will use the JUST database.

4.4 Period of performance

The period of performance for the Dorms management system is two months and half (70 days) beginning on 2nd October 2015 through 10th December 2015. All work must be scheduled to complete within this timeframe.

Any modifications or extensions will be requested through project manager and team work for review and discussion.

The team work will be required to meet twice per week (day and time TBD). Additionally, all project gate reviews will be held at JUST and attended by the project manager.

Project manager will provide and arrange for meeting places for all required meetings.

4.5 Meeting schedule (agenda)

#	What	When	Who	Expected Duration
1	Creating the Team and assign manger. (Project Organization)	2/10/2015	All team	5-days
2	Deciding the subject of the project and defining project phases.	8/10/2015	All team	1-week
3	Documentation of project scope and creating project charter.	15/10/2015	All team	1-week
4	Collect project inputs of stakeholders and defining requirements.	22/10/2015	Sub group of 2 persons	10-days
5	Project plan development (Constraints, risks) and creating the SOW.	22/10/2015	Sub group of 3 persons	10-days
6	Testing the first document	1/11/2015	All team	1-week
7	System analysis and feasibility studies.	8/11/2015	Sub group of 2 persons	1-week
8	Data model.	8/11/2015	Sub group of 2 persons	2-weeks
9	Process modeling.	8/11/2015	Sub group of 2 persons	2-weeks
10	System designing and implementation.	15/11/2015	Sub group of 3 persons	20-days
11	Presentation.	29/11/2015	Sub group of 4 persons	1-week.
12	Testing.	4/12/2015	All team	4-days
13	Review the final report.	8/12/2015	All team	2-days

4.6 Major Deliverables

Major Deliverables including tasks support them:

1. Website design: complete design of the website, including its pages, services, and other stuffs related to the dorms management system.

- ER diagram.
- Designing registration service.
- Designing rooms services and maintenance.
- Designing student services.
- Designing supervisor management services.
- Designing administrator services.

2. Website implementation: complete implementation of the system as a website, using the appropriate programming language.

- Implementing registration service.
- Implementing room's services and maintenance.
- Implementing student services.
- Implementing supervisor management services.
- Implementing administrator services.

3. Testing: make sure that the website is working correctly, with reliability and efficiency.

- Testing each service alone.
- Testing the whole system.

4. Training sessions.

4.7 Applicable Standards

1. For this project we will use Java script programming language for website implementation.

2. Programmers work 3-4 hours per day on implementation.

3. At the end of working days, the work done on the project shall be saved and backed up.

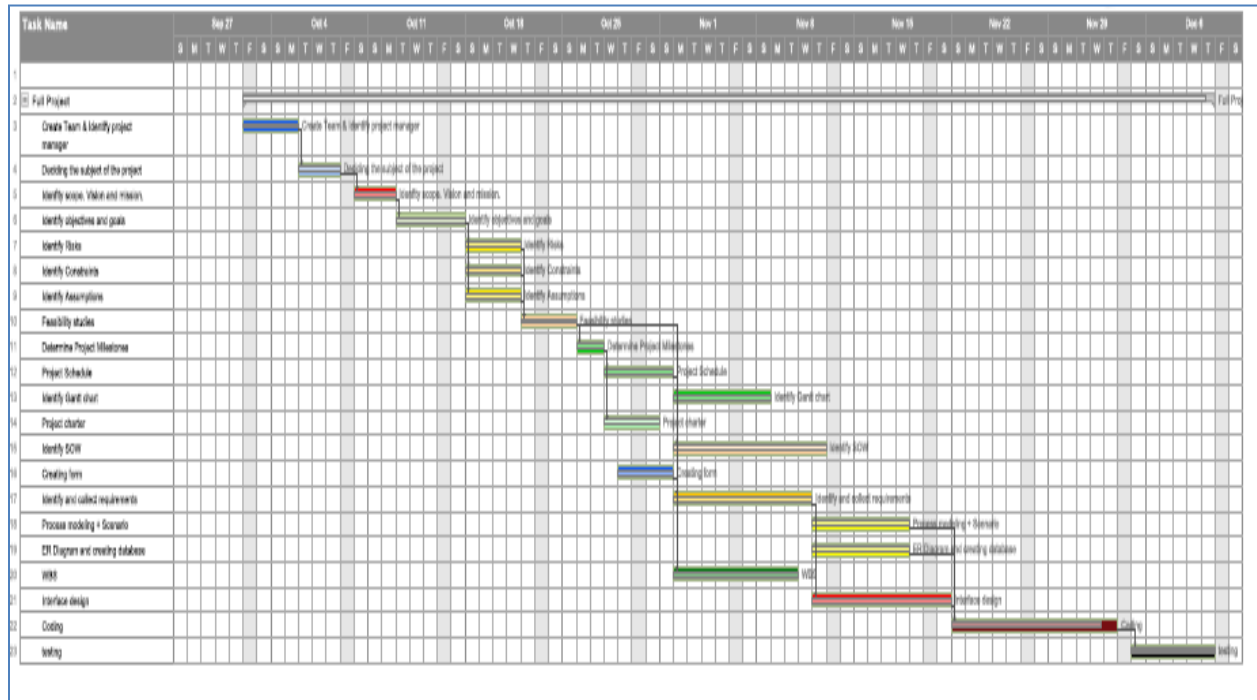
4.8 Acceptance Criteria

- For the dorms management system Project the acceptance of all deliverables will reside with JUST dorm Manager. The manager maintains a small team of three advisors in order to ensure the completeness of each stage of the project and that the scope of work has been met. Once a project phase is completed and the project manager provides their report/presentation for review and approval, JUST dorm Manager will either sign off on the approval for the next phase to begin, or reply to the project manager, in writing, advising what tasks must still be accomplished.
- Once all project tasks have been completed, the project will enter the hand-off/closure stage. During this stage of the project, the project manager will provide their project closure report and project task checklist to JUST dorm Manager. The acceptance of this documentation by JUST dorm Manager will acknowledge acceptance of all project deliverables and that the project manager has met all assigned tasks.

4.9 Resources

1. Human resources:
 - Ahmed kalefah
 - Alaa abu hantash
 - Ammar omar
 - Iman Abu Ishqair
 - Mais Tawalbeh
 - Mohammad Munzer
 - Yousef Hadder
2. Development environment.
 - Server to hold the database.
3. Reusable software components a Partial-experience component is being used in building the website.

Gantt chart



Project Schedule

No.	Task	Task Leader	Start Date	End Date	Complete%	Working days
1	Create Team and Identify project manager.	Iman	2/10/2015	5/10/2015	100%	4-days
2	Deciding the subject of the project.	Alaa	6/10/2015	8/10/2015	100%	3-days
3	Identify scope, vision and mission	Alaa	10/10/2015	12/10/2015	100%	3-days
4	Identify objectives and goals.	Alaa	13/10/2015	17/10/2015	100%	5-days
5	Identify Risks	Mais	18/10/2015	21/10/2015	100%	4-days
6	Identify Constraints	Mohammad	18/10/2015	21/10/2015	100%	4-days
7	Identify Assumptions	Iman	18/10/2015	21/10/2015	100%	4-days
8	Feasibility Studies	Alaa	22/10/2015	25/10/2015	100%	4-days
9	determine Project Milestones	Ammar	26/10/2015	27/10/2015	100%	2-days
9	Project Schedule	Alaa	28/10/2015	1/11/2015	100%	5-days
10	Identify Gantt charter	Ahmed	2/11/2015	8/11/2015	100%	7-days
11	Project charter	Ammar	28/10/2015	31/11/2015	100%	5-days
12	Identify SOW	Iman	2/11/2015	10/11/2015	100%	9-days
13	Identify and collect requirements	Mais	2/11/2015	11/11/2015	100%	10-days
14	Creating form	Ahmed	30/10/2015	1/11/2015	100%	3-days
15	Process modeling + Scenario	Ammar	12/11/2015	18/11/2015	100%	7-days
16	ER Diagram and creating database	Mohammad	12/11/2015	18/11/2015	100%	7-days
17	WBS	Mais	2/11/2015	10/11/2015	100%	9-days
18	Interface design	Yousef	12/11/2015	21/11/2015	100%	10-days
19	Coding	Ahmed	22/11/2015	3/12/2015	90%	10-days
20	testing	Yousef	5/12/2015	10/12/2015	100%	5-days

WBS

