FYP-Proposal Defense

Department of Computing Website

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Faculty of Engineering Science and Technology

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Problem Description

There is no online website/portal of Department of Computing

Manual processes for form submissions (Admission form, General Application form, etc), complaint handling, and announcements lead to delays.

The lack of a centralized platform for accessing information about timetables, and other departmental matters causes inconvenience for students and staff.

By developing an Integrated and integrated website, the aim is to streamline these processes, improve accessibility to information, and enhance communication within the department.

Proposed project will address the need for a centralized system that allows for efficient management of departmental activities and better interaction between students and faculty.

Objective

To develop a dynamic and user friendly website for the department of computing.

Project Scope

The scope of proposed project is to develop a dynamic and user friendly website for the department of computing. Following features will be included in website:

Home page

Sub Webpages for specific faculties

Integrated admission form

Complaint box

Section wise Timetable

Events, News Announcement area

Library Book database

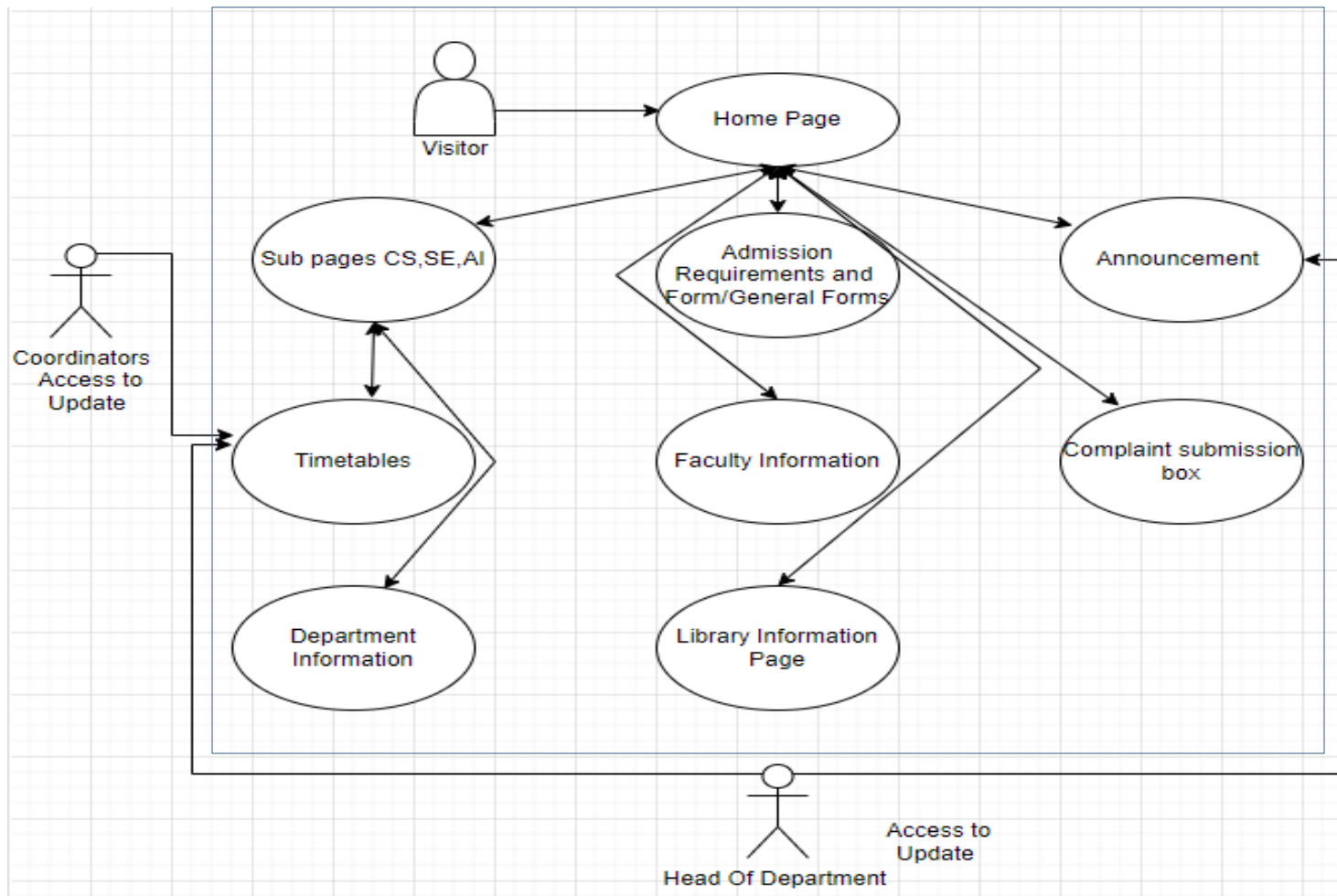Detailed Departmental Information

Comparison Chart

Features	University of Sindh, Jamshoro	IBA, Karachi	University of Lahore	KUST	Air University Pakistan	DOC FEST-HU
Home page	✔	✔	✔	✔	✔	✔
Sub-web pages of CS, SE, AI	✘	✔	✘	✘	✘	✔
Admission Form / General Application Form	✘	✔	✘	✘	✘	✔
Complaint box	✘	✘	✘	✘	✘	✔
Timetable of every semester section wise	✘	✘	✘	✘	✘	✔
Announcement area	✔	✔	✔	✔	✔	✔
HOD and Coordinator logins	✘	✘	✘	✘	✘	✔
Information about department faculty,	✘	✔	✔	✔	✔	✔
Library Information	✔	✔	✘	✘	✘	✔

Department of Computing

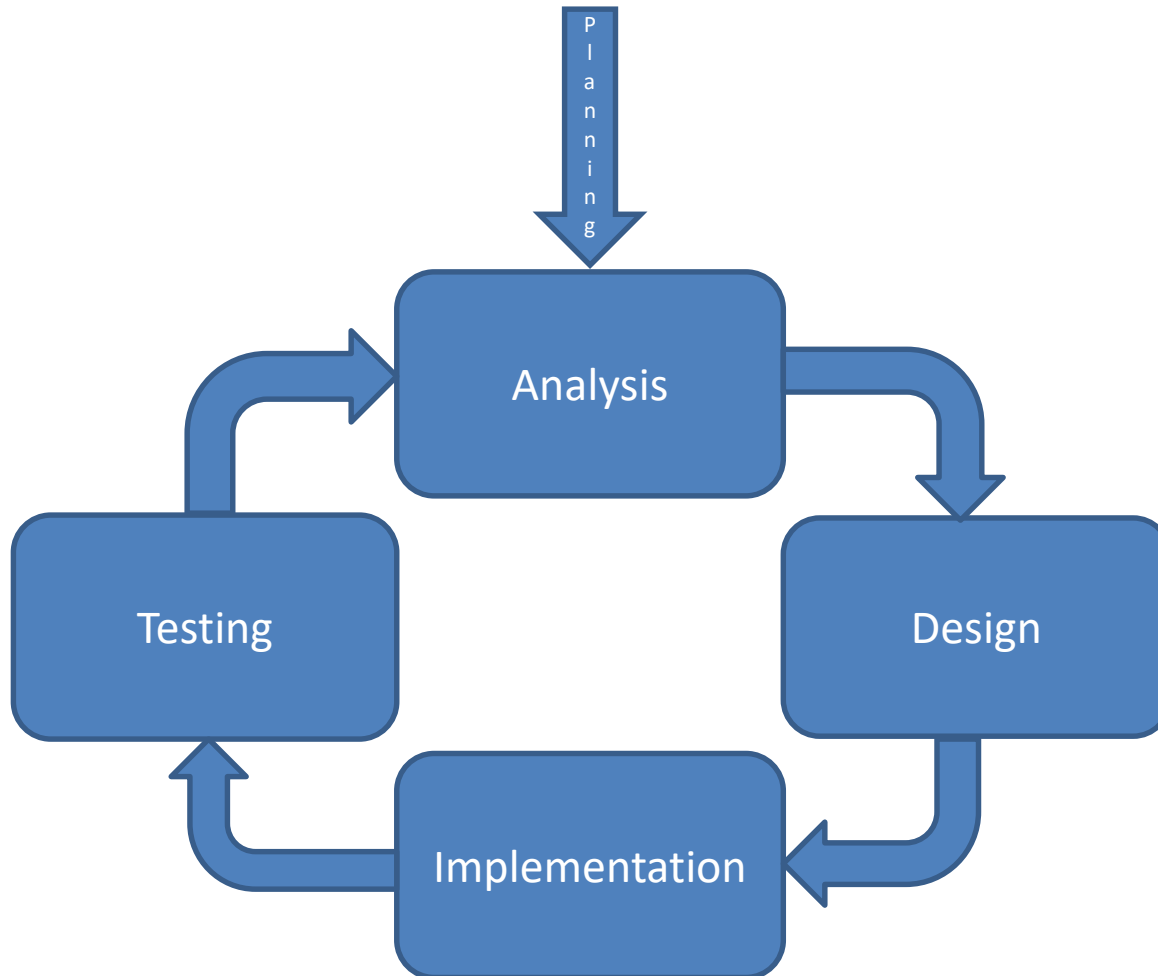CS-FYP   Hamdard University

Use Case Diagram

Project methodology

Evolutionary prototype methodology is used for developing the Department of Computing website, by using this methodology, team will approach each functionality repeatedly, will make changes according to user feedback and improving overtime.

Evolutionary Prototype Diagram:

Responsibilities of the Team Members

RACI Matrix:

Responsibility /Task	Shahmeer Abid	Syeda Noreen Zahra	Hamza Sheikh	Mr Afzal Hussain
Requirement Gathering	R/A	R/A	R/A	C/I
Analyses	C	R/A	I	C/I
Resources Planning	I	C	R/A	C/I
Frontend Development	R/A	I	C	C/I
Database Management	C	R/A	I	C/I
Backend Development	I	C	R/A	C/I
Testing	R/A	I	C	C/I
Documentation	A	R	C	C/I
Finalize	R/A	R/A	R/A	C/I

Project Plan

JULY 2024	• Proposal Defence • Requirement Analysis
AUG 2024	• Requirement Gathering • Technology Understanding
SEP 2024	• Project Planning • Task allocation
OCT 2024	• Frontend development • Home page and sub pages development
NOV 2024	• Admission and general forms • complaint box
DEC 2024	• Timetable section • login form • Initial testing
JAN 2025	• Announcement area • Faculty Information page
FEB 2025	• Library Information page • Database
MAR 2025	• Back-end Development
APR 2025	• Integrate forms • User acceptance test
MAY 2025	• Performance testing • Documentation
JUNE 2025	• Final project Report and Presentation

Gantt Chart

Tasks / Responsibilities	Assigned To	Start Date	End Date	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
Proposal Defense	Shahmeer,Noreen,Hamza	1 July 2024	30 July 24	■											
Requirement Analysis	Shahmeer,Noreen,Hamza	1 July 2024	30 July 24	■											
Requirement Gathering	Shahmeer,Noreen,Hamza	1 Aug 2024	30 Aug 24		■										
Technology Understanding	Shahmeer,Noreen,Hamza	1 Aug 2024	30 Aug 24		■										
Project Planning	Shahmeer,Noreen,Hamza	1 Sep 2024	30 Sep 24			■									
Task Allocation	Shahmeer,Noreen,Hamza	1 Sep 2024	30 Sep 24			■									
Front-end Development phase	Shahmeer , Hamza	1 Oct 2024	30 Oct 24				■								
Home page and sub-pages Development	Shahmeer	1 Oct 2024	30 Oct 24				■								
Admission and general Form development	Shahmeer, Hamza	1 Nov 2024	30 Nov 24					■							
Complaint box Development	Shahmeer	1 Nov 2024	30 Nov 24					■							
Timetable Section and login forms	Shahmeer	1 Dec 2024	30 Dec 24						■						
Initial Testing and FYP Report-1	Shahmeer,Noreen,Hamza	1 Dec 2024	30 Dec 24						■						
Announcement Area	Shahmeer, Hamza	1 Jan 2025	30 Jan 25							■					
Faculty Information Page	Shahmeer	1 Jan 2025	30 Jan 25							■					
Library Information Page	Shahmeer	1 Feb 2025	30 Feb 25								■				
Database Development	Noreen	1 Feb 2025	30 Feb 25								■				
Backend Development	Hamza	1 Mar 2025	30 Mar 25									■			
Integrate Forms	Shahmeer	1 Apr 2025	30 Apr 25										■		
Performance Testing	Shahmeer,Noreen,Hamza	1 May 2025	30 May 25											■	
Documentation	Shahmeer,Noreen,Hamza	1 May 2025	30 May 25	■	■	■	■	■	■	■	■	■	■	■	
Final Project Report and Presentation	Shahmeer,Noreen,Hamza	1 June 2025	1 June 25												■

Costing and Budgeting

Components	Prices
2 laptops	60,000 + 45000 = 1,05,000
Domain Hosting	8000
Miscellaneous expenses	8000
Printing of documents	4000
Total	1,25,000

Tools/Technology

Hardware Requirement:

Computers/Laptops for web developer

Software Requirement:

Web Development Tools(HTML, CSS, JavaScript, Frontend framework such as react.js, Bootstrap)

Backend Development Tool (Firebase)

Database Management (MySQL)

VS Code

SQL Management Server

FYP Deliverables

FYP-I Evaluation	FYP-II Evaluation
SRS Document	Advance feature Development (Announcement area, Faculty information, library Information)
Requirement analysis and gathering	
Project Plan and Task Allocation	Database Management
Initial Prototype	Backend Development
Development Core functionalities (Home page, sub pages, Admission & general form, Complaint box, Login, Timetable)	Integration
	Testing
Testing and Report	Final Refinement
Documentation and Report - I	Project Completion and Report - II

Reference

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