

King Fahd University of Petroleum & Minerals



SWE 363:Web Engineering & Development

Prepared by :

Group 6

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purpose

The purpose of this project is to develop a web-based unified system that can manage department faculty' research portfolios and empower admins to generate various types of reports.

Goal

The aim of this project is to develop a web-based integrated system that gives the admin of the department the ability to conduct the research in a coherent manner, by giving him the opportunity to approve/ reject the research submitted by the members of the department. In addition , the system will allow the faculty create and set up their own portfolios and add their research in different formats such as BibTex, XML, JSON, etc . which will be stored in SQL database. Furthermore , Guests from students and others will have the ability to read research that marked as available by the publisher using an intelligent search engine.

system requirements

- The system should allow Faculty Member to create new account.
- The system should provide fill-in form for adding extra information to faculty member such as Education ,Work Experience etc.
- The system should allow Faculty Member to add photo to their profile .
- The system should allow Faculty Member to add web site URL and email address to his profile as a hypertext.
- The system should allow Faculty Member to create portfolio/s.
- The system should allow Faculty Member to update portfolio/s.
- The system should allow Faculty Member to manage which items in his portfolio to be visible to others.
- The system should allow Faculty Member to import or export portfolio.
- The system should allow Faculty Member to import additional publications from google scholar, bibtex files, excel files, etc.
- The system should allow Faculty Member to add specific items manually .
- The system should allow Faculty Member to delete specific items manually .
- The system should allow Faculty Member to modify specific items manually .
- The system should allow Faculty Member to generate resume.
- The system should allow Faculty Member to save generated resume as PDF.
- The system should allow Faculty Member to print generated resume.
- The system may allow Faculty Member to provide multiple templates and allow him to select one to add them on the resume .

- The system may allow Faculty Member to add watermarks or signatures to the resume .
- The system should allow admin to create account with privilege .
- The system should allow admin to approve new portfolio requests .
- The system should allow admin to add portfolio (s) .
- The system should allow admin to delete portfolio (s) .
- The system should allow admin to modify portfolio (s) .
- The system should allow admin to import portfolio (s) .
- The system should allow admin to export portfolio (s) .
- The system should give admin ability to Send notifications to members (one or group) .
- The system supposed to provide admin the ability to choose the themes and file formats of the reports.
- The system supposed to provide admin the ability to add watermarks or signatures
- The system should allow page/s visitors to search for specific portfolio.
- The system should allow page/s visitors to view specific portfolio.
- The system should give page/s visitors View statistics at various levels (for one member, one group or department)

User Characteristics

User Characteristics	Management	Supervisor	Student
Age	40-50	25-35	18-25
Sex	M	M	M
Physical Limitations	May have some physical limitations in related to sight	Mostly have none physical limitation	May be fully able-bodied or may have some physical limitation
Educational Background	Doctor	Assistant Doctor & Doctor	Undergraduate & Graduate
Computer/IT use	High IT skills	High IT skills	Medium to High IT skills
Motivation	Motivated	Motivated	Unmotivated

Users needs

Faculty members needs a portfolio which is a collection of records that reflect their accomplishments, skills, experiences, and attributes. It highlights and showcases samples of some of their best work, along with life experiences, values and achievements. In addition , to their personal information that incorporate into their portfolios which can greatly reflect on their abilities as an individual as well as become a useful tool in marketing themselves to employers, corporations, colleges and universities. In the same context, Admin and visitors need this system .The admin will have the ability to control the portfolios which publish by his department members as well as visitor who need the system to take information from reliable sources .

Content of the Website and Organization

sign up page

Page Headline / Title (Sign Up)

Bolded Sub-Headline (Join our system)

Fill-in Form to extract user information and add it to the database .

the footer of the page will contain to button one to submit the form and the other one to cancel the process .

Admin Home page

Page Headline / Title (Faculty Research Portfolio)

Navigation (contain drop down menu for items such as , research approval ,new faculty member/s etc.)

Sidebar (contain buttons such as , user satisfaction , export file , import file etc)

Main content at the middle (search engine)

Faculty member Home page

Page Headline / Title (Faculty Research Portfolio)

Navigation (contain drop down menu for items such as , create portfolio ,my portfolio/s etc.)

Sidebar (contain buttons such as , readers satisfaction , export file , import file etc)

Main content at the middle (search engine).

portfolio/s page

Page Headline / Title (Faculty Research Portfolio).

Bolded Sub-Headline (#name portfolio) .

Navigation (contain drop down menu for items such as , search for portfolio ,portfolio/s setting etc.)

Sidebar (contain buttons such as , readers satisfaction , export file , import file etc)

Main content at the middle (portfolio content/s , edit button , delete button).

Visitor home page

Page Headline / Title (Faculty Research Portfolio).

Bolded Sub-Headline (#name portfolio) .

Navigation (contain drop down menu for items such as , search for portfolio/research's etc.)

Sidebar (contain buttons such as , add comment, export file etc)

Main content at the middle (portfolio content/s).

