

# **FDRS**

**(Free Distribution Resources System )**

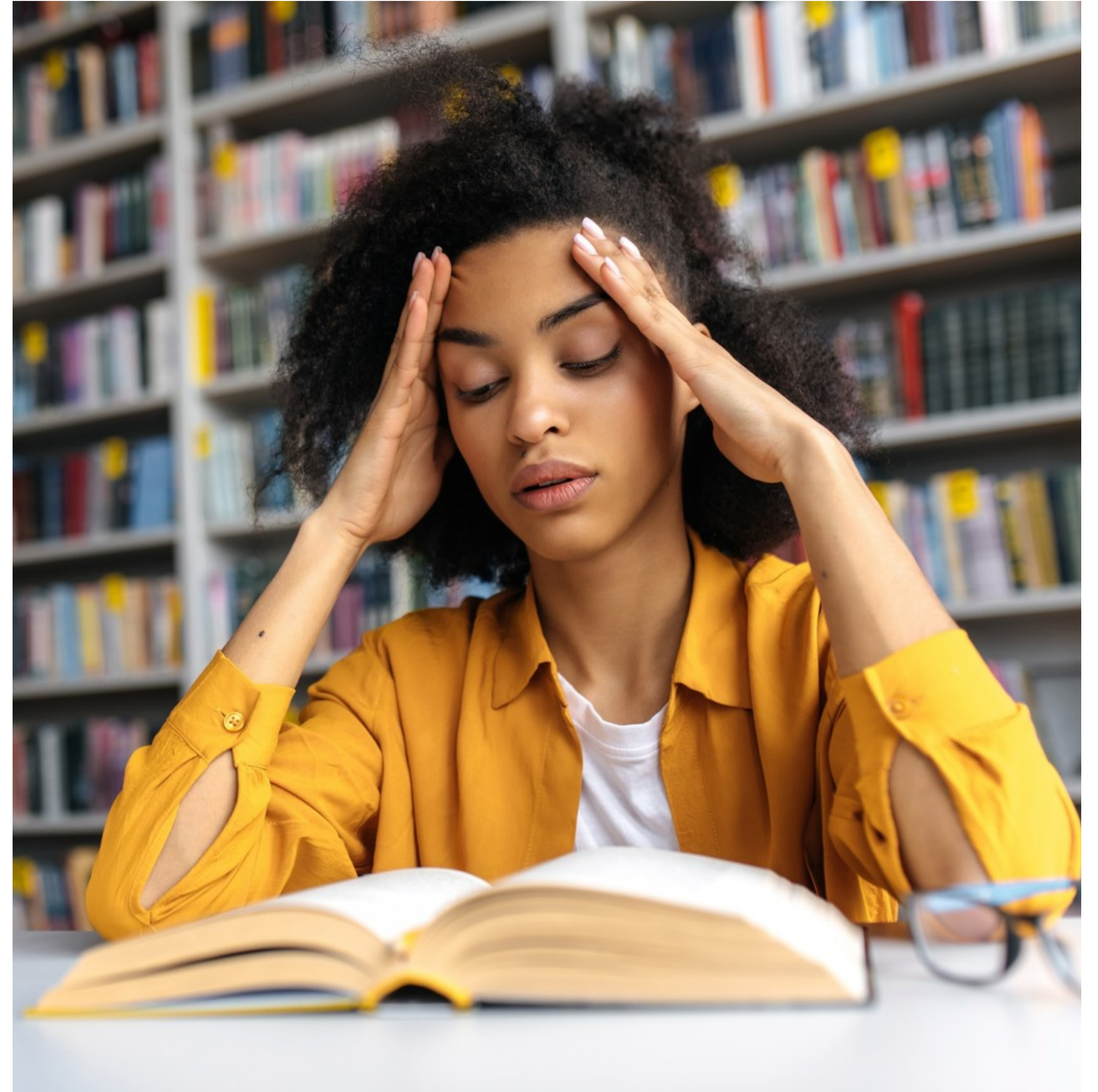
**Graduation Project (1) by Wasef Joyousi Anas Alseid Saif Karborani Surpervised by Dr.Ashraf Odeh**

# CHAPTER ONE

## INTRODUCTION

# 1.1 PROBLEM

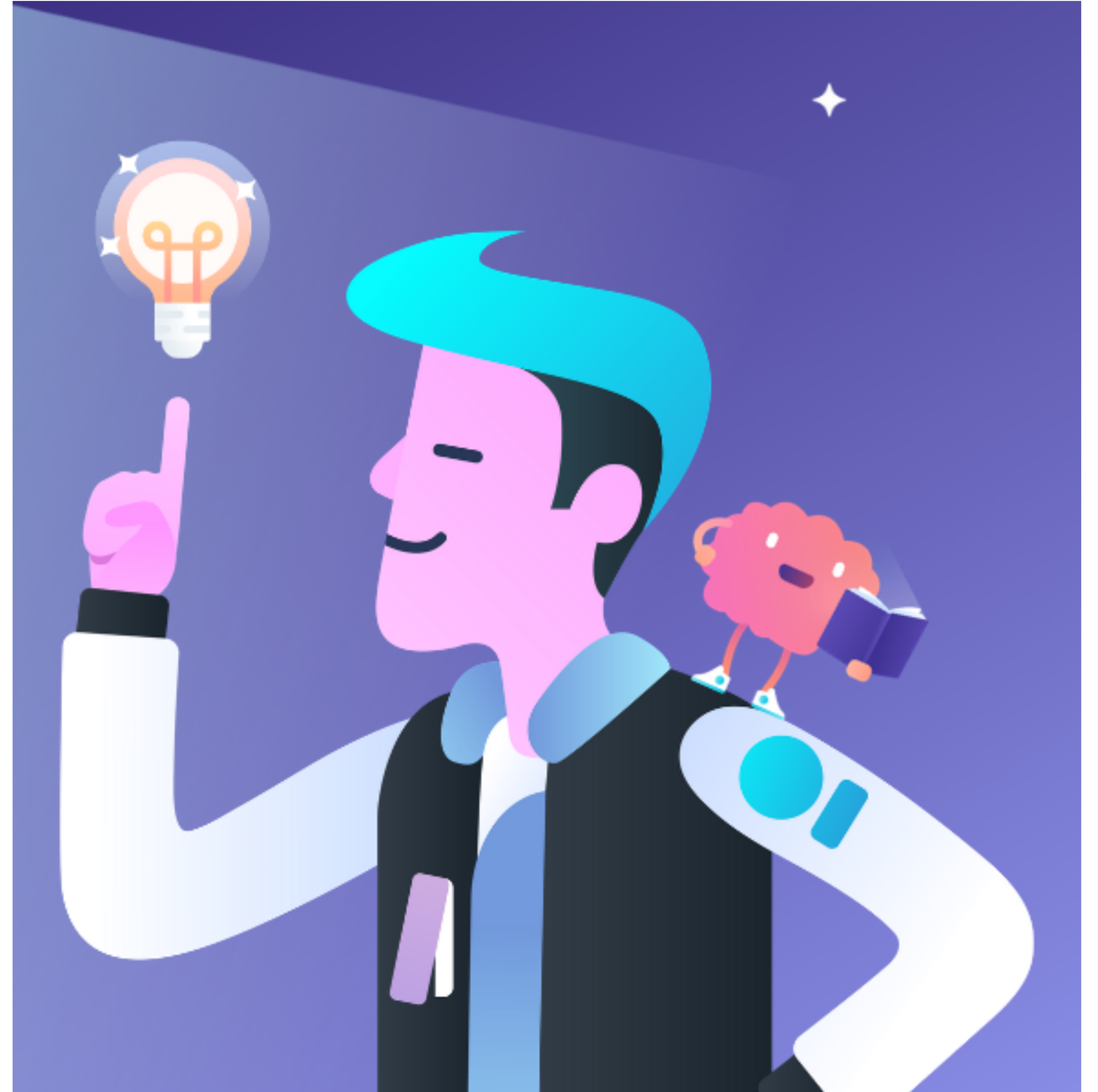
**WHATS OUR CHALLENGE  
THAT WE WANT TO SOLVE ?**





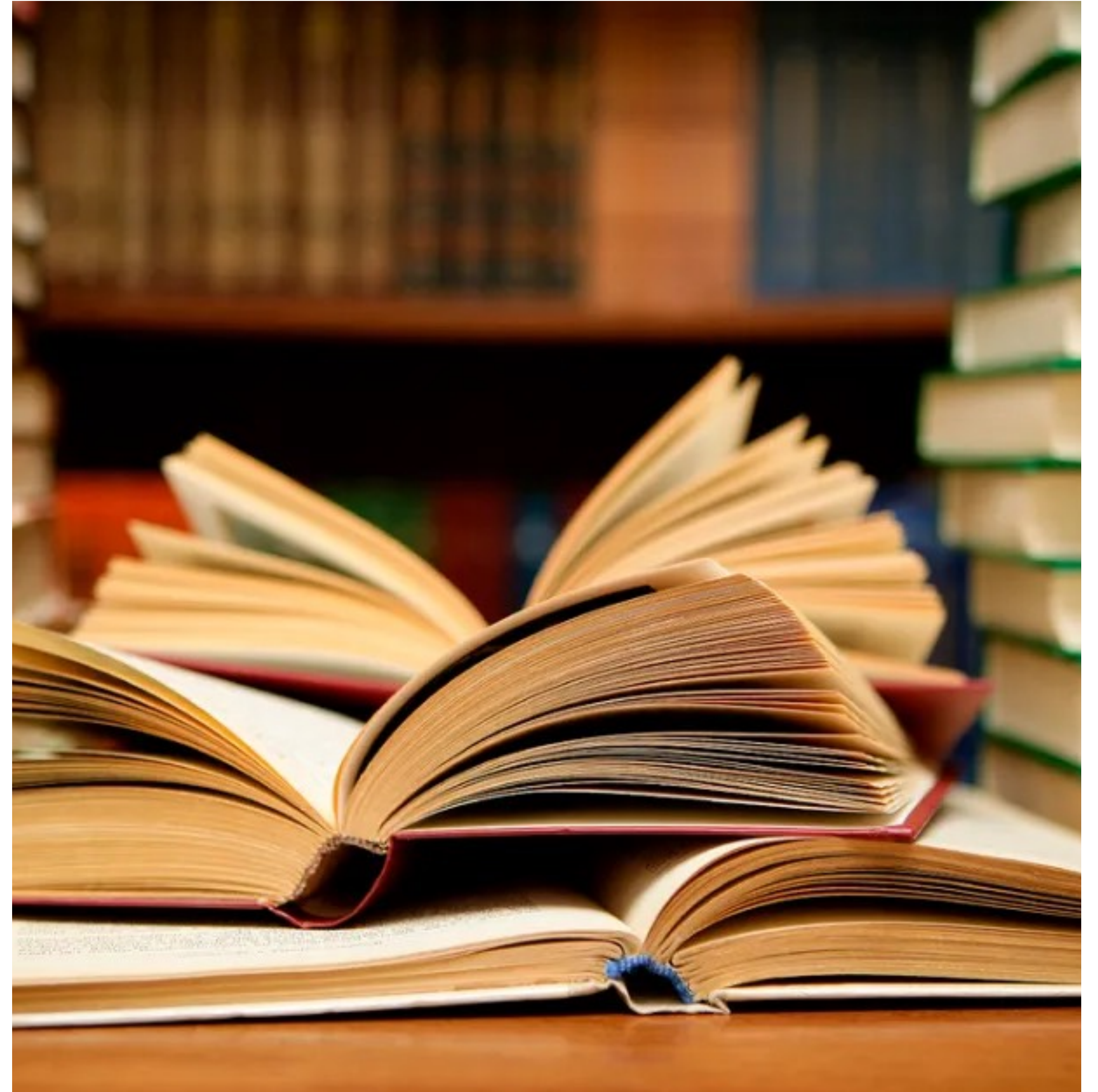
# **SOLUTION**

**WHAT DID WE DO ABOUT  
OUR PROBLEM?**

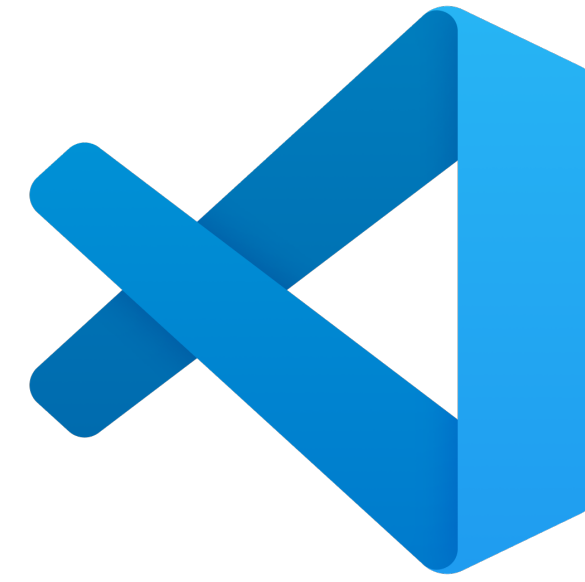


# **1.3 RELATED WORK**

**WHAT'S NEW IN OUR  
SOLUTION ?**



# 1.4 TECHNOLOGY AND TOOLS TO BE USED





# CHAPTER TWO

## PROJECT PLAN

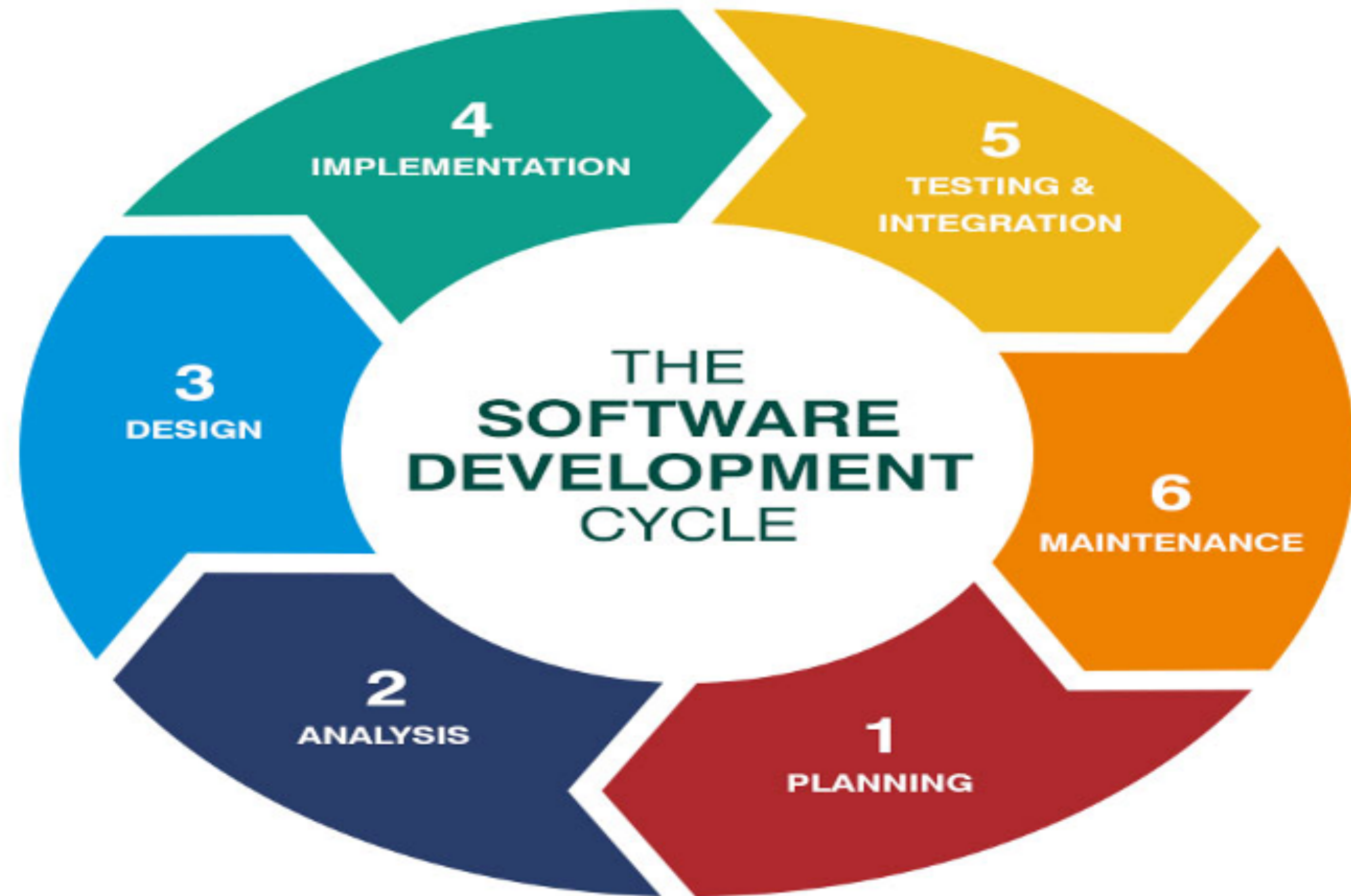
## 2.1 PROJECT OBJECTIVES

- Provide users in the university with the new up to date academic references.
- Provide users in the university to ability to share and upload their academic resources.
- Provide users to search for resources (Books...Etc.) Based on their specific needs.
- Provide users a user friendly interface that it easy to navigate.
- Provide users the ability to download the required resource if available.
- Provide users with video tutorials.
- Provide users the ability to review the Resource (book...etc.)
  - Provide a guest with less features
- An admin login page where admin can add books, videos or page sources.
- Open link for learning websites.



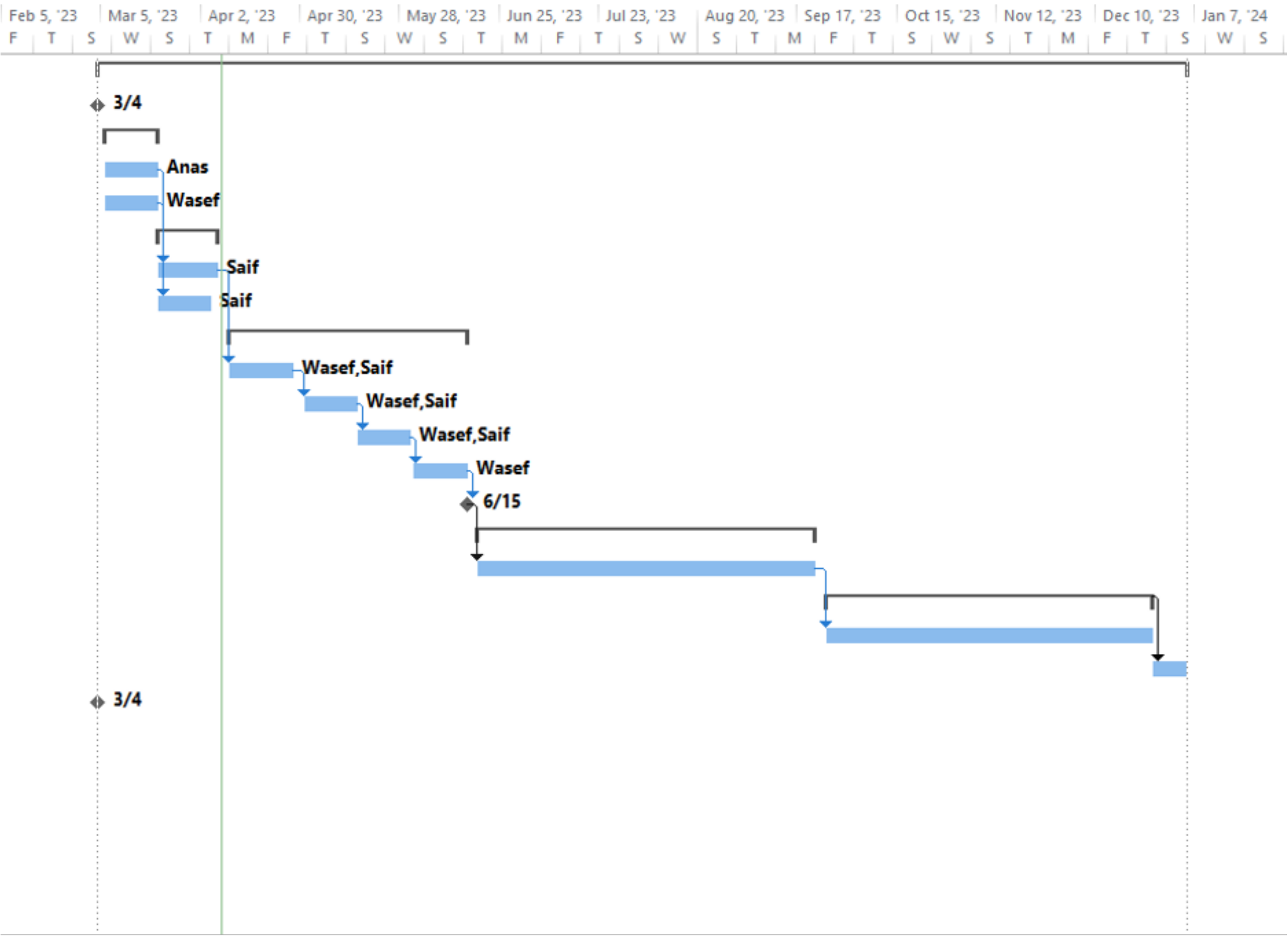


## 2.3 SOFTWARE PROCESS MODEL



# 2.4-2.5 PROJECT SCHEDULE & CHART

Task Name	Duration	Start	Finish	Predecessors	Resource Names
▮ E-library	128 days	Sat 3/4/23	Thu 1/4/24		
Start	0 days	Sat 3/4/23	Sat 3/4/23		
▮ Project Planning	7 days	Mon 3/6/23	Mon 3/20/23		
Project statement	7 days	Mon 3/6/23	Mon 3/20/23		Anas
project Objectives	7 days	Mon 3/6/23	Mon 3/20/23		Wasef
▮ Requirements and anaylsis	8 days	Tue 3/21/23	Thu 4/6/23		
Funcational requirements	8 days	Tue 3/21/23	Thu 4/6/23	4,5	Saif
non-functional requirirements	7 days	Tue 3/21/23	Tue 4/4/23	4,5	Saif
▮ Arcitecture and design	28 days	Mon 4/10/23	Thu 6/15/23		
use case diagrams	7 days	Mon 4/10/23	Thu 4/27/23	7	Wasef,Saif
use case flow-of-events	7 days	Mon 5/1/23	Mon 5/15/23	10	Wasef,Saif
class diagram	7 days	Tue 5/16/23	Tue 5/30/23	11	Wasef,Saif
Entity relationship diagram	7 days	Thu 6/1/23	Thu 6/15/23	12	Wasef
End of Project 1.	0 days	Thu 6/15/23	Thu 6/15/23	13	
▮ Implementation	40 days	Mon 6/19/23	Thu 9/21/23		
Coding	40 days	Mon 6/19/23	Thu 9/21/23	14	
▮ Testing & integration	40 days	Mon 9/25/23	Mon 12/25/23		
Testing the code	40 days	Mon 9/25/23	Mon 12/25/23	16	
Deployment and maintenance	5 days	Tue 12/26/23	Thu 1/4/24	17	
End of project 2	0 days	Sat 3/4/23	Sat 3/4/23		



# CHAPTER THREE

## REQUIRMENTS AND ANALYSIS



## **3.1 FUNCTIONAL REQUIRMENTS**

## **3.2 NON-FUNCTIONAL REQUIRMENTS**

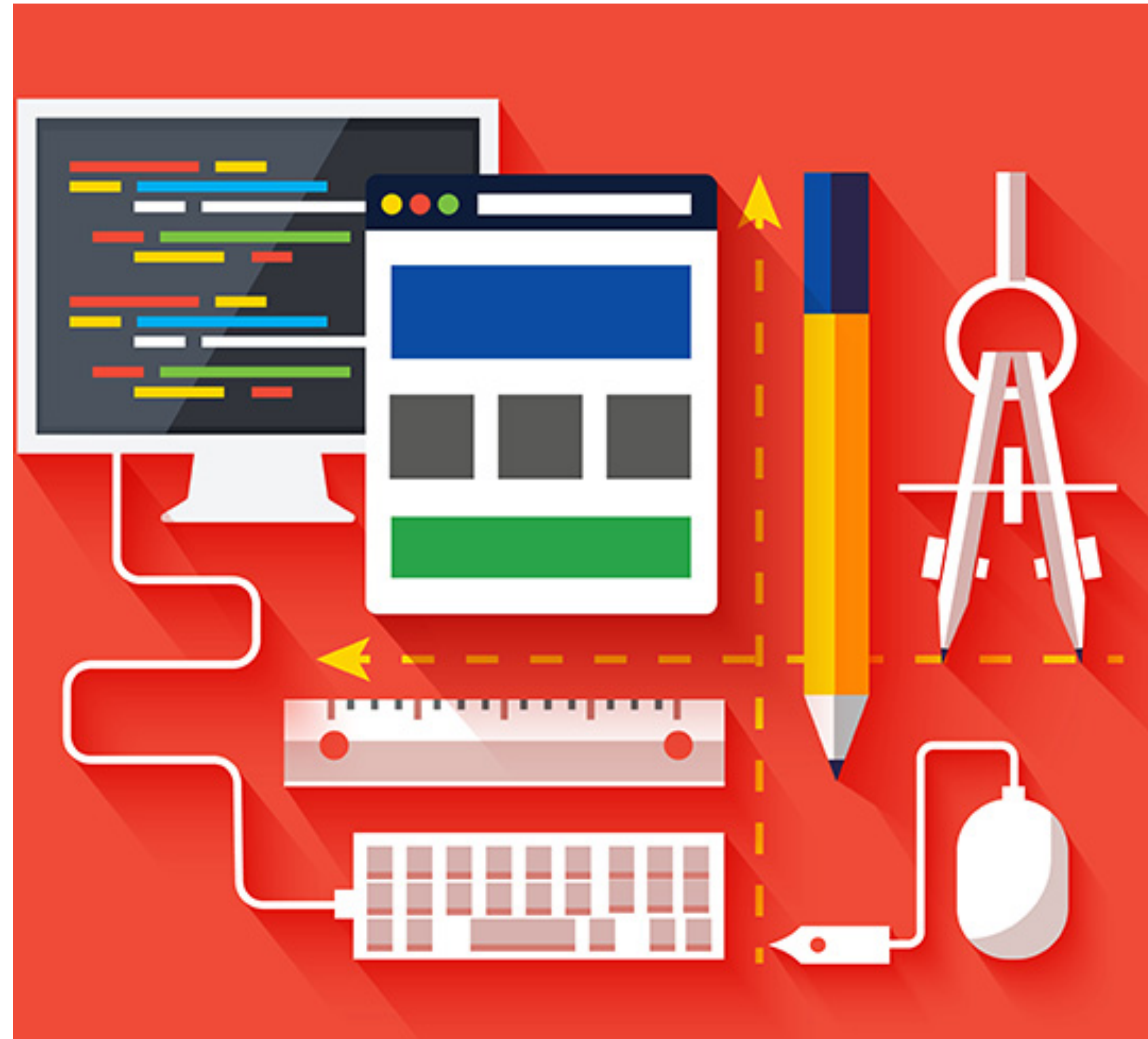
# CHAPTER FOUR

ARCHITTECURE & DESGIN

# 4.1 ARCHITECTURE

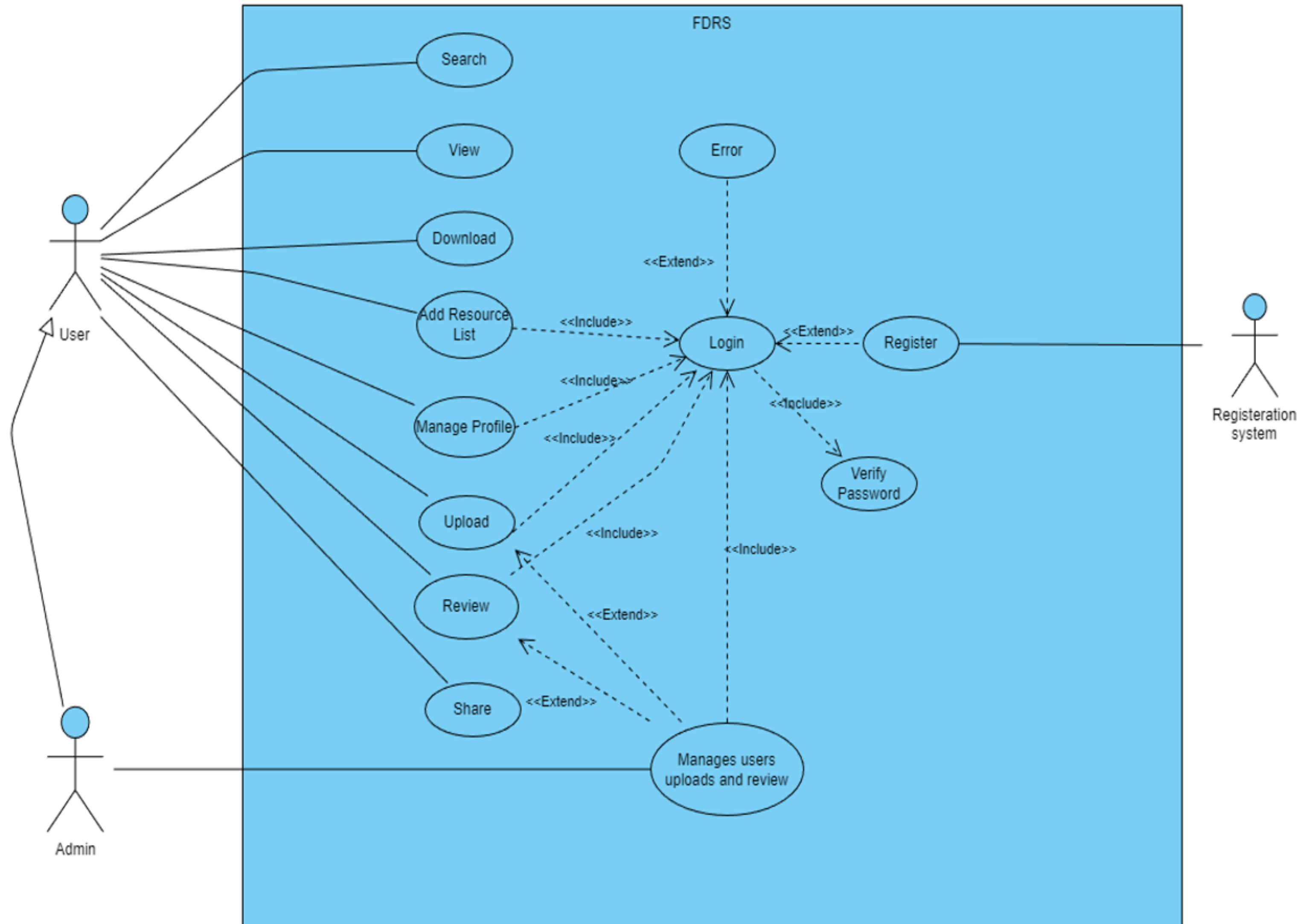
**WE USED 3 LAYERS FOR OUR WEBSITE**

- **PRESENTATION LAYER -> FRONT END**
  - **APPLICATION LAYER -> IS OUR LOGIC SERVER**
  - **DATA LAYER -> DATABASE**
- 
- **WHY DID WE USE A 3-TIER ARCHITECTURE ?**
    1. **SECURITY**
    2. **SCALABILITY**
    3. **MODIFICATION**





# 4.2 USE CASE DIAGRAM



# USE CASES DESCRIPTION/FLOW OF EVENTS

Use Case name:	Login	Use Case name:	Register(Create new account)	Use Case name:	Search
Use Case ID:	1	Use Case ID:	2	Use Case ID:	3
Description:	This use case describes how the actor logs into the System.	Description:	This use case describes how an actor creates a new user account.	Description:	This use case describes how the actor Search through resources.
Primary Actor:	User/admin.	Primary Actor:	User.	Primary Actor:	User/admin.
Secondary Actor:	Registration system.	Secondary Actor:	Registration system.	Secondary Actor:	...
Pre-condition:	The user must register (use case must be performed first).	Pre-condition:	None.	Pre-condition:	None.
Main flow of events:	User/admin: 1- The system requests that the actor enter his/her E-mail and password.  2- The actor enters his/her E-mail and password and presses 'login' option. 3- The system validates the entered E-mail and password and logs the actor into the system (Checks against the database).	Main flow of events:	1- The actor clicks on (Register) option from the home page. 2- The system prompts the actor to enter his/her full name, E-mail and password. 3- The system validates the entered E-mail and password via the registration system and then redirects the actor to the login page (A1).	Main flow of events:	User/admin: 1. The user uses the search bar to type the resources that he is looking for. 2. The system will scan the database based on the search type. 3. Then the system returns the desired Search resource.
Alternative Flow of events:	<ul style="list-style-type: none"><li>• The system displays an error message that the entered E-mail and/or password is invalid.</li><li>• The system requests that the actor re-enters his/her E-mail and password.</li></ul>	Alternative Flow of events:	A1: <ul style="list-style-type: none"><li>• The system displays an error message that the E-mail and/or password is invalid.</li><li>• The system requests that the actor re-enters his/her E-mail and password.</li></ul>	Alternative Flow of events:	<ul style="list-style-type: none"><li>• The system tells the user that the search is not Found/invalid</li></ul>
Post-condition:	The user that logins in will be able to do his features (Search, view, download, review, upload, track List, Share). The admin That login in will have the Extra feature of managing the users.	Post-condition:	Added the user to the database via the registration system actor.	Post-condition:	The user should then be able to see the resource.

# USE CASES DESCRIPTION/FLOW OF EVENTS

<b>Use Case name:</b>	View	<b>Use Case name:</b>	Add resource list	<b>Use Case name:</b>	upload
<b>Use Case ID:</b>	4	<b>Use Case ID:</b>	6		
<b>Description:</b>	This use case describes how the actor view’s the resource.	<b>Description:</b>	This use case describes how the user can add his Favorite list of resources	<b>Use Case ID:</b>	7
<b>Primary Actor:</b>	User/admin.	<b>Primary Actor:</b>	User/admin		
<b>Secondary Actor:</b>	...	<b>Secondary Actor:</b>		<b>Description:</b>	This use case describes how the user can upload resources on the website
<b>Pre-condition:</b>	None.	<b>Pre-condition:</b>	The user should have an account and logged in		
<b>Main flow of events:</b>	<ol style="list-style-type: none"><li>1. The user clicks on the view button.</li><li>2. The system redirects the user into another page.</li></ol>	<b>Main flow of events:</b>	<ol style="list-style-type: none"><li>1- The user selects the resource.</li><li>2- The user clicks on add to list.</li><li>3- The system returns that it has been added to the list.</li></ol>	<b>Primary Actor:</b>	Users.
<b>Alternative Flow of events:</b>	<ul style="list-style-type: none"><li>· The system return an error.</li></ul>	<b>Alternative Flow of events:</b>	<ul style="list-style-type: none"><li>· The system returns to the user that he can’t add more to the list.</li><li>· The system displays an error message.</li></ul>	<b>Secondary Actor:</b>	Admin.
<b>Post-condition:</b>	When the resources accepted from the admin the user can view it	<b>Post-condition:</b>	The user can view his resource list.		
<b>Use Case name:</b>	Download			<b>Pre-condition:</b>	Logged in.
<b>Use Case ID:</b>	5			<b>Main flow of events:</b>	<ol style="list-style-type: none"><li>1- The user clicks on the upload button and selects the resource he wants to upload.</li><li>2- The website displays a form with fields for the user to upload what kind of resource.</li><li>3- The admin reviews and accepts it (A1)</li><li>4- The system goes to the database server and add the resource.</li><li>5- The system returns to the user that upload is successful and has been added to the website.</li></ol>
<b>Description:</b>	This use case describes how the actor can Download a resource from the website			<b>Alternative Flow of events:</b>	<ul style="list-style-type: none"><li>· The system returns that the upload is invalid.</li><li>· The admin Declines the upload (A1).</li></ul>
<b>Primary Actor:</b>	User			<b>Post-condition:</b>	Users can see the uploaded resource.
<b>Secondary Actor:</b>					
<b>Pre-condition:</b>	None				
<b>Main flow of events:</b>	<ol style="list-style-type: none"><li>1- The user selects a resource to download.</li><li>2- The system transfers the resource from the database (server) to the user website downloads.</li></ol>				
<b>Alternative Flow of events:</b>	<ul style="list-style-type: none"><li>· The systems return to the user that the resource isn’t available to download.</li></ul>				
<b>Post-condition:</b>	The user has the resource on his device, drive.				



Use Case name:	Review	Use Case name:	Share	Use Case name:	Manage users
Use Case ID:	8	Use Case ID:	9	Use Case ID:	10
Description:	The use case describes how the user can review on the resource, in which he can put a comment or rate.	Description:	This use case describes how the user can share the resource	Description:	This use case describes how the admin validates the users uploads and reviews.
Primary Actor:	User.	Primary Actor:	User/admin	Primary Actor:	Admin.
Secondary Actor:	Admin.	Secondary Actor:		Secondary Actor:	User.
Pre-condition:	Logged in.	Pre-condition:	None.	Pre-condition:	Logged in as an admin.
Main flow of events:	1- User selects the resource to review. 2- The website displays a review form with fields for the user to enter their review information (comment, rating) and submits. 3- The website displays the review on the resource for other users to see.	Main flow of events:	1- The user selects the resource that he wants to share. 2- The system returns a link of the resource to the user. 3- The user either copy the link or confirm sharing it via system.	Main flow of events:	1- The system shows to the admin the upload's of the users. 2- Admin accepts them. 3- The system returns to the user that their upload has been approved. 1- As for the review (comments of users) 2- The admin clicks on the users comment 3- Hit delete button 4- System returns that comment has been deleted.
Alternative Flow of events:	<ul style="list-style-type: none"> <li>The review may be reviewed by the admin and deletes it.</li> </ul>	Alternative Flow of events:	<ul style="list-style-type: none"> <li>The system fails providing the link or sharing the resource.</li> </ul>	Alternative Flow of events:	<ul style="list-style-type: none"> <li>The admin declines.</li> <li>The system returns to the users that the upload has been rejected.</li> </ul>
Post-condition:	Users can see the review on the resource.	Post-condition:	The system delivers the shared resource or user has the shared link.	Post-condition:	The admin can Reject users uploads and reviews.

Use Case name:	Manage profile
Use Case ID:	11
Description:	This use case describes how the user can edit his username or password.
Primary Actor:	User.
Secondary Actor:	
Pre-condition:	Logged in
Main flow of events:	<div>1- The user clicks on user icon or manages profile button</div> <div>2- The system displays the user information.</div> <div>3- The user edits their profile information and saves.</div> <div>4- The system displays to the user that the Profile changes has been done.</div>
Alternative Flow of events:	<div>· The system returns that the edit is invalid.</div>
Post-condition:	User is able to change his profile settings.