A

Project Report

On

APPTUBE

Submitted By:

MANDAVIYA ANKIT

BHALANI JENISH

KINDERKHEDIYA VASU

B.C.A [SEM _ 5]

Guided By;

PROF.: Jay Prakash Vyas

Submitted To:

Bhakta Kavi Narsinh Mehta University

Junagadh

SHRI PATEL KELAVANI MANDAL

COLLEGE OF TECHNOLOGY

COLLEGE ROAD, JUNAGADH _ 362001.

Academic year:2025-2026

❖ ABSTRACT:-

"APPTUBE" was taken by me and my project partner our 5th Semester for B.C.A. at PKM COLLEGE JUNAGADH under Bhakt Kavi Narsinh Mehta University.

I am deeply grateful to the persons who are directly or indirectly involved with this project and who have help helped me completing this project successfully.

First of all I am grateful to my project guide **Prof. Jay Prakash Sir** who has guide me through the project. Their encouragement guidance helped me to take this kind of live project and complete it by the time.

My other classmates who inspired me and my friends who gave me valuable suggestions are also part of my project work.

And last but not the least, my family members who supported me through my study, helped me immensely in the project also.

I am thankful to Shree P.K.M. College for all the facilities they provide me. And I would like to thanks all staff members of my college.

Mandaviya Ankit

Bhalani Jenish

Kinderkhediya Vasu

❖ ACKNOWLEDGMENT:-

We sincere “THANKS” goes to:

We have thankful to all people to contribute in this project. And also thanks to this people to helpful us. We would like to thank those without whose support and inspiration this project is not successfully accomplished. We have first of all thanks to our guide **Prof. Jay Prakash Vyas** who took us in the right path for the web application development and they have been also provided the suggestion and advices. We are also thanks to our head of department **Prof. Jitendra Radaliya** they are given us to knowledge about the good software developer.

We are also very thankful to respective principal who gave us an opportunity to present this project.

❖ DECLARATION:-

We **MANDAVIYA ANKIT , BHALANI JENISH, KINDERKHEDIYA VASU** student of B.C.A. In Shree Patel Kelavani Mandal College of technology and B.ED. would like to declare that the project report entitled **"PKM COLLEGE"** submitted by using partial Fulfilment of the requirement of the completion of B.C.A. SEM-5 is my original work.

1._____

2._____

3._____

(Student Signature)

Sr. no	Title	Page No
(1)	Project Introduction	1
	1.Project Profile	2
	2.Requirement Gathering	3
	:- Question/Answering	4
	:- Information Report	6
	3.Requirement Analysis	7
	4.Project Modules	8
(2)	System Study	10
	1.Project Planning	10
	2.Time Line Chart	10
	3.Feasibilitly study	11
	:-Operational Feasibility	11
	:-Technical Feasibility	13
	:-Economical Feasibility	14
(3)	System Flow	15
	1.Normalization	17
	2.Data dictionary	17
	3.Data Diagrams	18
	:- Data Flow Diagram	19
	:- E-R Diagram	21
	:- Use Case Diagram	23
	:- Activity Diagram	25
(4)	System Design	27
(5)	Testing	40
	1.Manual Testing	40
	:- Test Case	40
(6)	Conclusion	42
(7)	Bibliography	43
(8)	Project Task Report Include Project Guide Remarks	44

❖ PROJECT INTRODUCTION:-

- The “APPTUBE” is an APP & GAME store site script where user will be able to browser view details , and download various apps and platform , user can Explore apps across multiple categories like education Entertainment , games , and more.
- User can also register , login to create there profile to download apps & games
- The platform include safe download links , app information , and a smooth , friendly interface for an enhanced user experience
- The main aim of APPTUBE is to provide user with a simple safe , and user- friendly platform to discover and download app and games all in one place

❖ PROJECT PROFILE:-

Project Title	"APPTUBE"
Project Description	Apptube is apps & games downloading site script where site user view different categories apps & games and also can download
Project Duration	3 Months.
Project Guide	Prof. Jay Prakash sir
Platform	Application will be embedded with windows 11 and deployed with vs code
Tool Used	1. Editor Use:- Visual Studio Code 2.Web Server:- MySQL 3.Browser:- Google Chrome, Firefox
Front End	HTML , CSS , JAVASCRIPT
Back End	NODE.JS
Team Member	3
Name of Team Members	1.Mandaviya Ankit 2.Bhalani Jenish 3.Kinderkhediya Vasu

❖ Requirement Gathering:-

- "In this phase of SDLC necessary information is collected we have collected information in this phase of our project development though different web sites".
- "Requirement gathering is the most important and fundamental stage in **SDLC**".
- There are mainly four types of requirement gathering

A	**Interviews**
B	**Questionaries**
C	**Record Reviews**
D	**Observation**

- But we choose Questionnaires option.
- Above four types we choose "Questionaries".

❖ QUESTIONNARIES:-

➢ Questionaries are special purpose document that allow the analyst to collect information and options from respond by using from respondent by above four types we choose “Questionaries”.

➢ Questions:-

1) **What is Apptube?**

- It Is a website where user aim downloads apps & games.

2) **Which Technologies are used in Apptube ?**

- Html , CSS , JavaScript , ndode.js and MySQL

3) **What can user do on Apptube ?**

- User can browse , view , and download apps and games.

4) **Can user upload apps ?**

- Only the admin can upload app and games in the website.

5) **Where are app file stored ?**

- App icons and apps files are stored in database.

6) **How Are user authenticated ?**

- Using login with secure Password hashing and Sessions

7) What type of apps are available ?

- Apps are available in different categories like education , Entertainment , games etc.

8) Is There a search feature ?

- Yes user can search app by name or category.

9) Does Apptube have an admin Panek ?

- Yes for managing apps , user and categories.

10) What is the aim of Apptube ?

- To provide a safe and easy Platform to download app and games.

- **INFORMATION REPORT:-**

- Existing system & requirement of new system:
- In the existing system all Windows app and game sharing is done manually , which is time – consuming.

  No proper platform exits to download verified windows app or tools in a categorized format.
- Files are shared via third-party links or usb , which may not be safe or updated.
- Need for a new system is clear due to lack of security organization , and automation.

➢ **New System :-**

- Apptube allows user to register log in and securely view and download windows app and games.
- App are reviewed via an admin panel before being made public
- Categories , search and filters make navigation simple and helpful.
- Maintains app details like version , size , developer info , etc
- Helpful for student developers and user in sharing and discovering apps easily

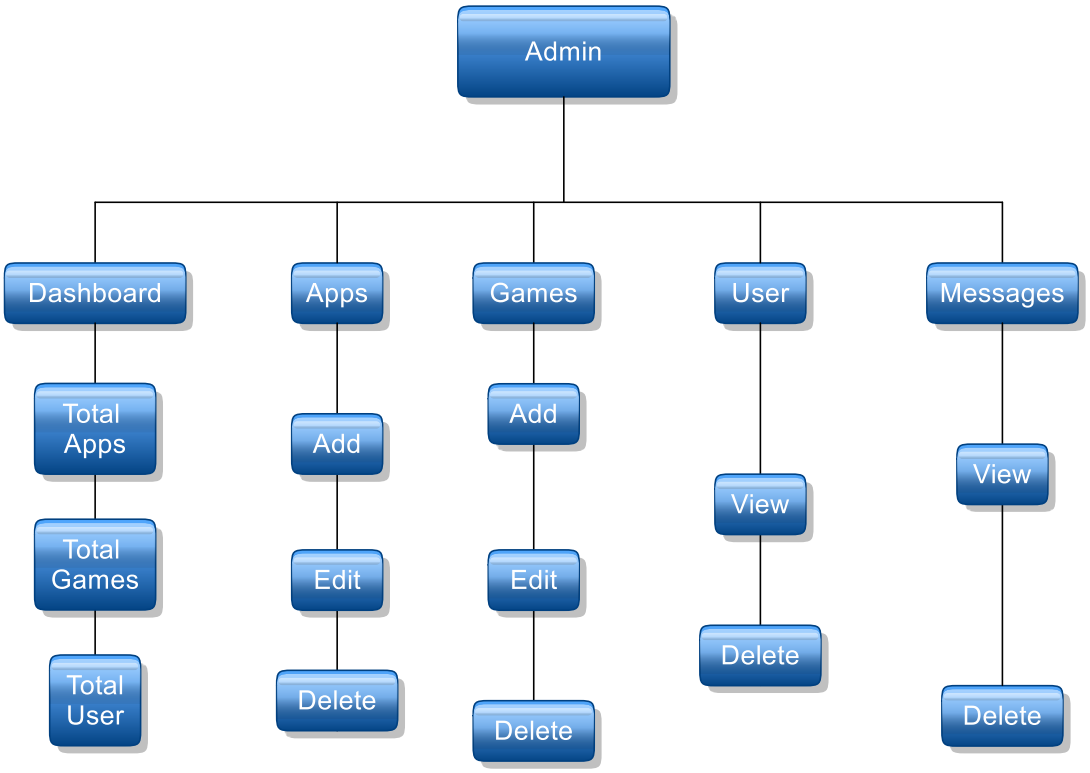
❖ REQUIREMENT ANALYSIS:-

- Requirement analysis is one of the most important phases in the life cycle of the software development, In requirement analysis the developer should know the requirements of the user and all the facilities they needed.

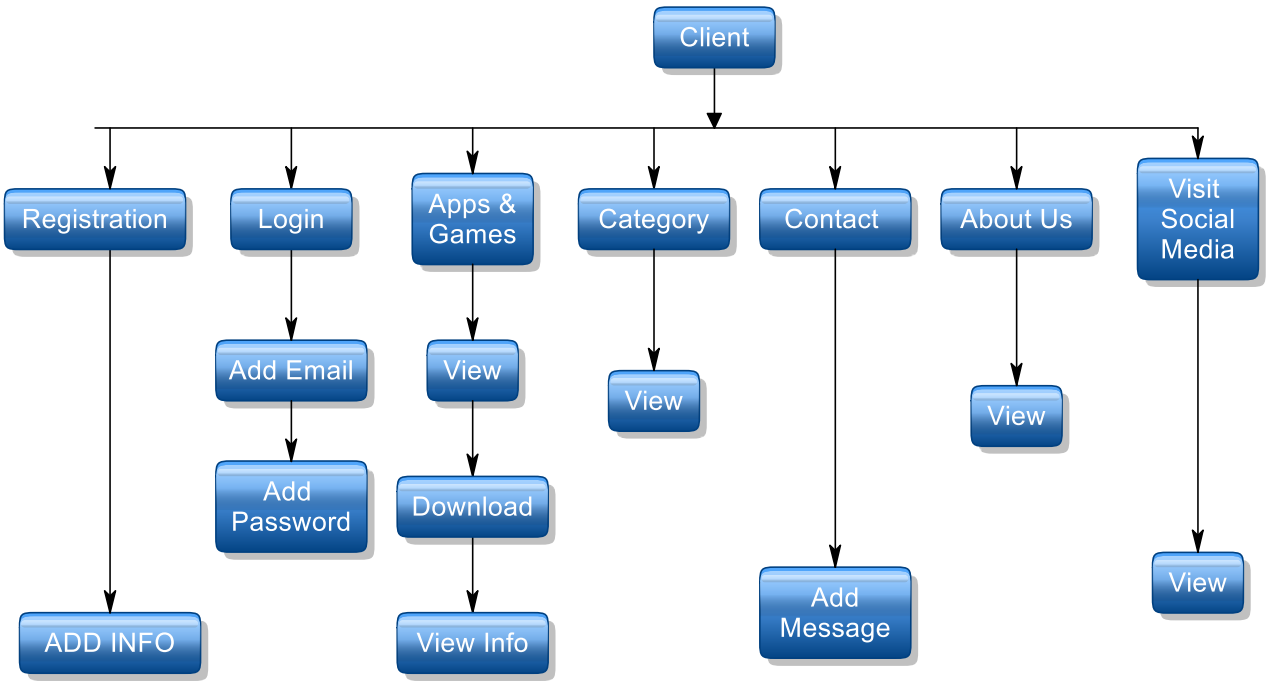
ADMIN	Client
Login	Login
Add Apps	Registration
Add Games	View app & games
Manage user	Download Apps & Games
Manage Contact	View category
	Contact us
	About us
	Visit our social – media

❖ PROJECT MODULE:-

➢ ADMIN:-



➢ CLIENT:-


Client
Registration
Login
Apps & Games
Category
Contact
About Us
Visit Social Media
Add Email
View
View
View
View
Add Password
Download
ADD INFO
View Info
Add Message
View

❖SYSTEM STUDY:-

➢ PROJECT PLANNING:-

No.	Task	Starting Date	End Date
1.	Requirement Gathering	17-06-2025	27-07-2025
2.	Requirement Analysis	28-06-2025	03-07-2025
3.	Feasibility Study	04-07-2025	13-07-2025
4.	Database Design	14-07-2025	22-07-2025
5.	System Design & Coding	23-07-2025	26-08-2025
6.	Testing	27-08-2025	03-09-2025
7.	Final Implementation	04-09-2025	13-09-2025
8.	Documentation	14-09-2025	18-09-2025

➢ TIME LINE CHART:-

Task Name	Start	Finish	Duration	July Jul Aug Sep 2025 2025 2025 2025 Sep 2025
Requirement Gathering	17-06-2025	27-06-2025	10 DAYS	
Requirement Analysis	28-07-2025	03-07-2025	6 DAYS	
Feasibility Study	04-07-2025	13-07-2025	10 DAYS	
Database Design	14-07-2025	22-07-2025	9 DAYS	
System Design & Coding	23-08-2025	26-08-2025	35 DAYS	
Testing	27-08-2025	03-09-2025	8 Days	
Final implementation	04-08-2025	13-09-2025	10 Days	
Document	14-08-2025	18-09-2025	5 Days	

❖FEASIBILITY STUDY:-

- A feasibility analysis usually involves a through assessment of the operational(need), financial and technical aspects of a proposal.
- The feasibility study concluded that the project would be able to be implemented to success as it was carefully planned.
- **There are three type of feasibility…..**
  1.Operational Feasibility
  2.Technical Feasibility
  3.Economical Feasibility

1) Operational Feasibility:-

- Whether the problem can be solved in the users' environment with existing and proposed system workings.
- **User:-** User, Admin

❖ Function that Preformed by Admin

Page	Process	Effected table	Operations
Login	Admin login	User	Edit, view, Delete
Registration	Manage added user	User	Delete, view
Category	Manage categories	Apps	Edit, Delete , view
App & Games	Manage Apps & Games	Apps	Add , Edit , Delete
Contact us	View & Delete	Contact	View, Delete

❖ Function that Preformed by User

Page	Process	Effected table	Operations
Login	User Login	User	Select
Registration	New Registration	User	Insert
Category	View Categories	Apps	View
Apps & Games	View & download Apps & games	Apps	View . Download
About us	View social media		View
Contact us	Submit queries or feedback	Contact	Insert

2) Technical Feasibility:-

- Weather it is technical possible with the existing technology or with the planned new technology.

➢ Hardware & Software Specification.

❖ Minimum Hardware Requirement:-

COMPONENT	MINUMUM REQUIREMENT
Processor	Intel i3(2.0ghz) or better
Supported Architecture	64 – bit only
Memory	4gb or more
Hard disk	250gb(20gb free for installation)

❖ Minimum Software Requirement:-

COMPONENT	MINIMUM REQUIREMENT
Operating System	Windows 11 / Linux
Web Server	MySQL
Database	MySQL
Web browsers	Google chrome , Mozilla Firefox , as above
Backend	Node js

3)Economical Feasibility:-

- The purpose of an economic feasibility is to determine the net benefit of the project.

❖ Hardware economical study

Component	Minimum requirement	Price	Website/Shop
Processor	Intel i3 or equivalent	799	www.flipcart.com
Hard Disk	150GB	1815	www.hardware.in
Memory	4GB DDR3 RAM	717	www.hardware.com

❖ Software economical study

Component	Price	Website/Shop
Node js	**FREE**	**www.nodejs.org**
MYSQL	**FREE**	**www.mysql.com**
Vs Code	**FREE**	**www.code.visualstudio.com**
Google Chrome	**FREE**	**www.mozila.org**
MySQL to store apps	**FREE**	**www.mysql.com**

❖ SYSTEM FLOW:-

❖ NORMALIZATION:-

- **What is Normalization?**
  - ⇨ "Database Normalization is the process of organization the columns and tables of a relational database to minimize data redundancy."
  - ⇨ Normalization usually involves dividing a database in to two or more tables and defining relationship between the tables

First Normalization:-

- A database is in first normal form. If it satisfies the following conditions:
- Contains only automatic values and there are no repeating groups

➢ **Attributes for User tables.**

Id
FName
LName
Email
Password

Second Normalization:-

- A database is a second normalization form if it satisfies the following condition.
- It is in first normal form.
- All non-key attributes are fully functional dependent on primary key.

Apps
ID
App Name
App type
Categories
Description
Appicon
Zipfile

Contact
User ID
First Name
Last Name
Email
Message

❖ DATA DICTIONARY:-

"A Data Dictionary defines the structure of the database itself and is used in control and maintenance of large database".

➢ Apps :-

Column	Type	Null
Id(primary)	Int	**No**
App name	varchar(50)	**yes**
App Type	varchar(6)	**Yes**
Categories	varchar(50)	**Yes**
Description	Long text	**yes**
Appicon	Long text	**yes**
Zipfile	Long text	**yes**

➢ User :-

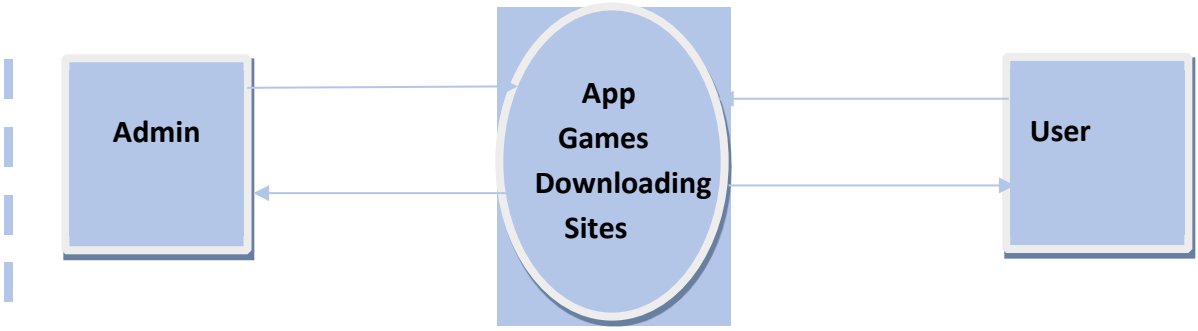
Column	Type	Null
ID(primary)	Int	**No**
First Name	Varchar(30)	**Yes**
Last Name	Varchar(30)	**Yes**
Email	Varchar(225)	**Yes**
Password	Long text	**Yes**

➢ Contact :-

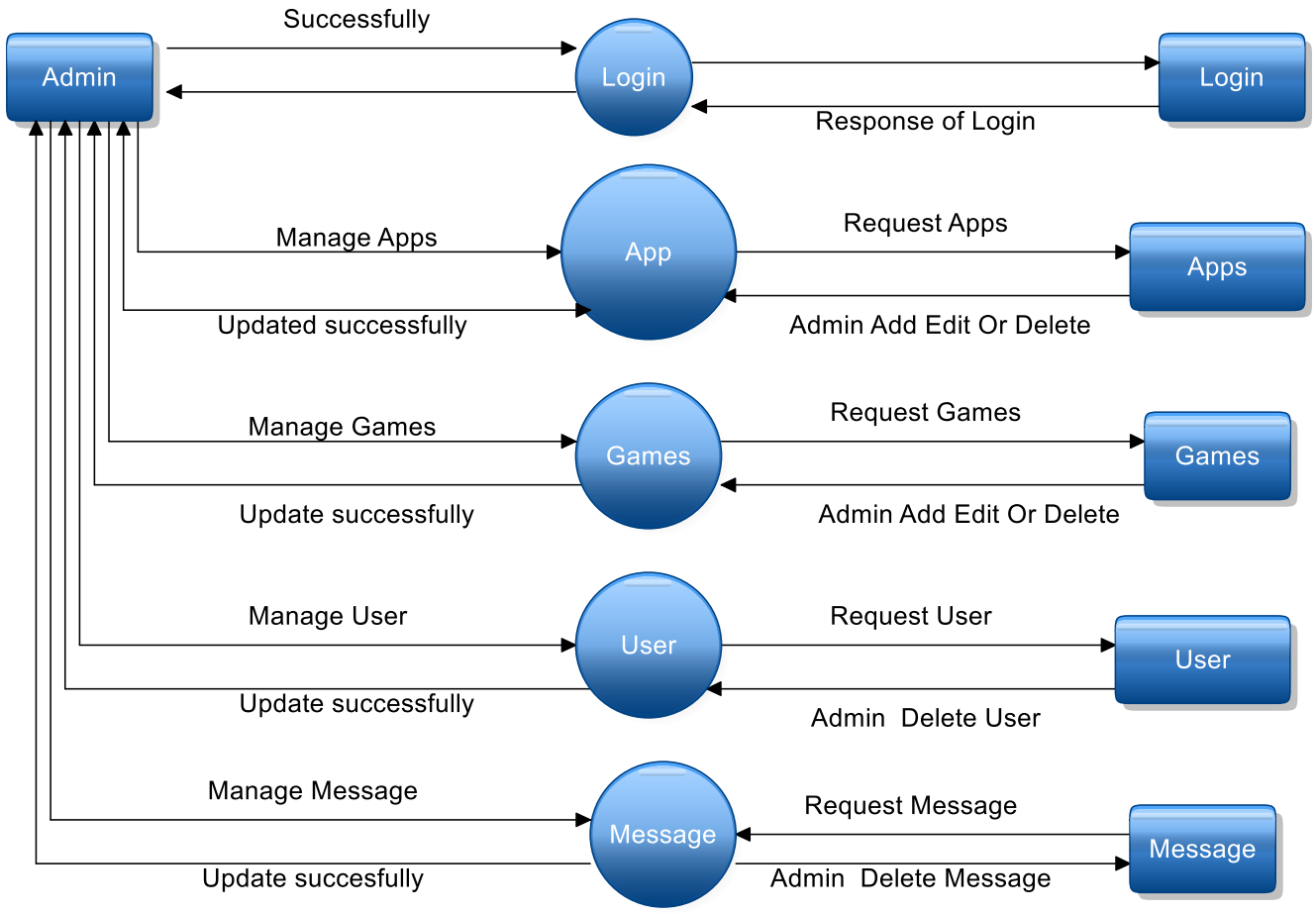
Column	Type	Null
User id *(Primary)*	Int	**No**
First Name	varchar(30)	**Yes**
Last Name	Varchar(30)	**Yes**
Email	Varchar(225)	**Yes**
Password	Long text	**Yes**

❖ DATA DIAGRAMS

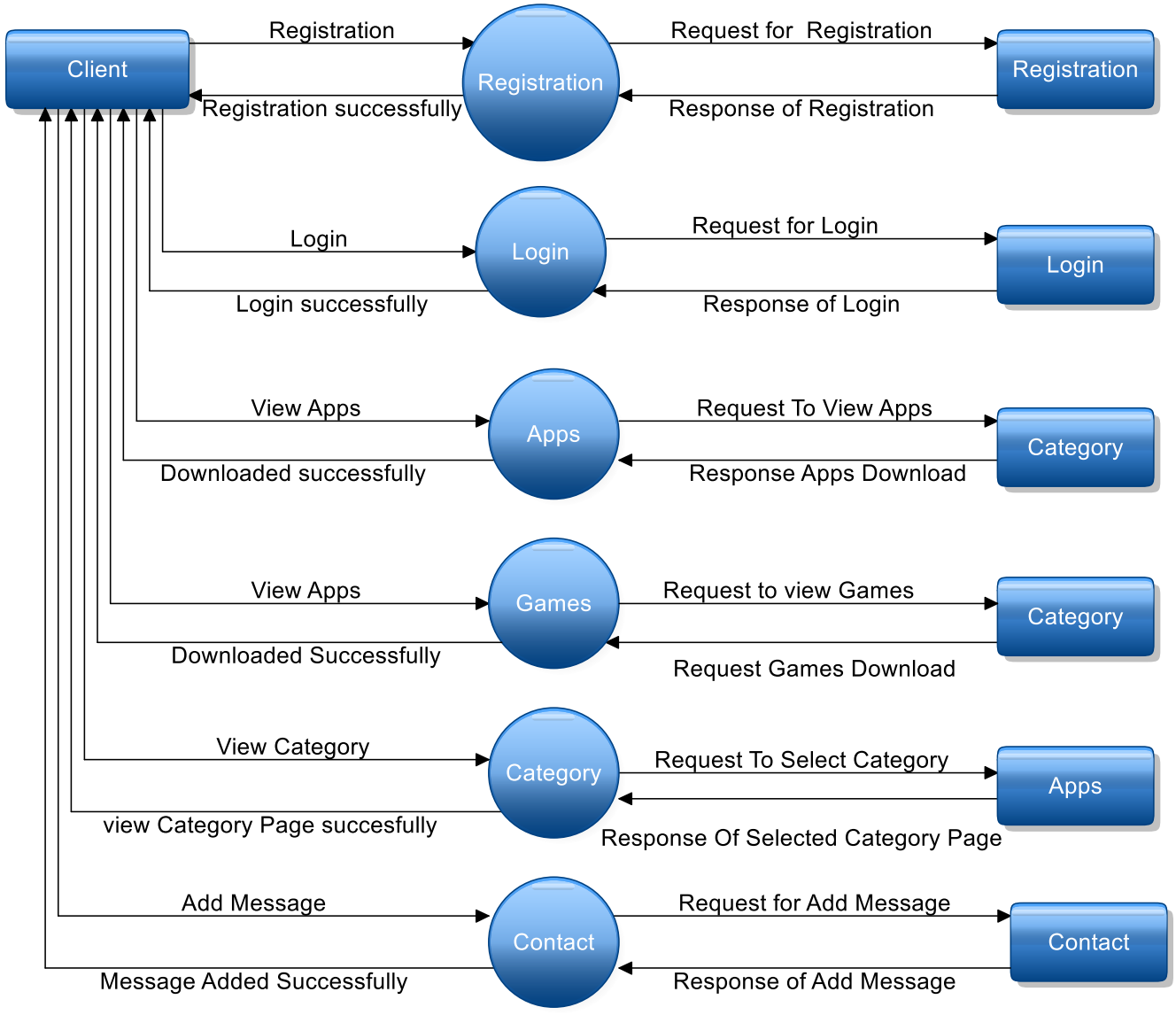
❖ 0 LEVEL DFD



❖ ADMIN level DFD:-



❖ Client level DFD:-

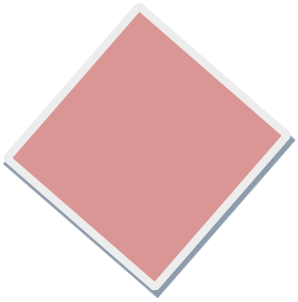


❖ E-R DIAGRAM:-

➢ Entity Relationship diagram

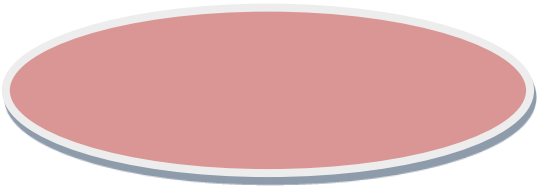
"An E-R Diagram is a chart that a visually represents the relationship between database entities".

Flow Line



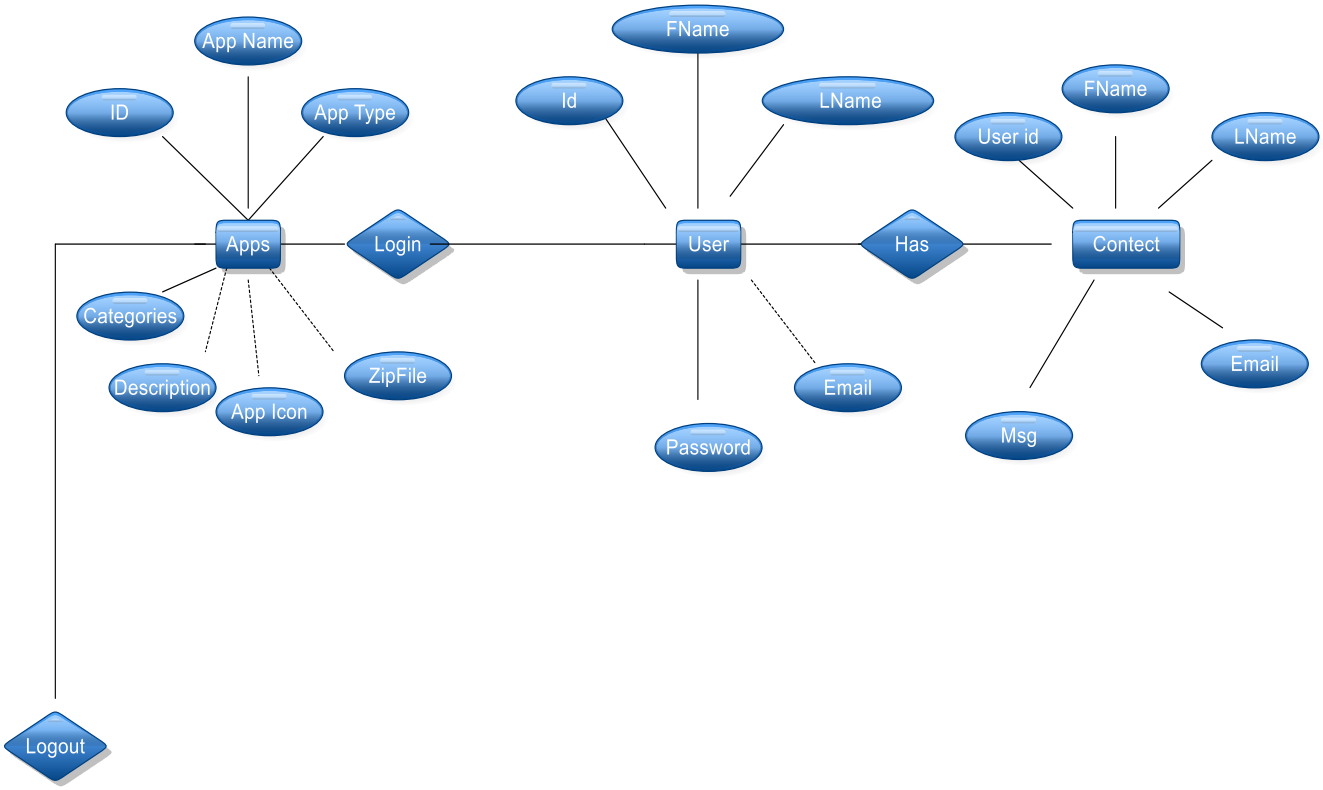
Relationship

Attribute



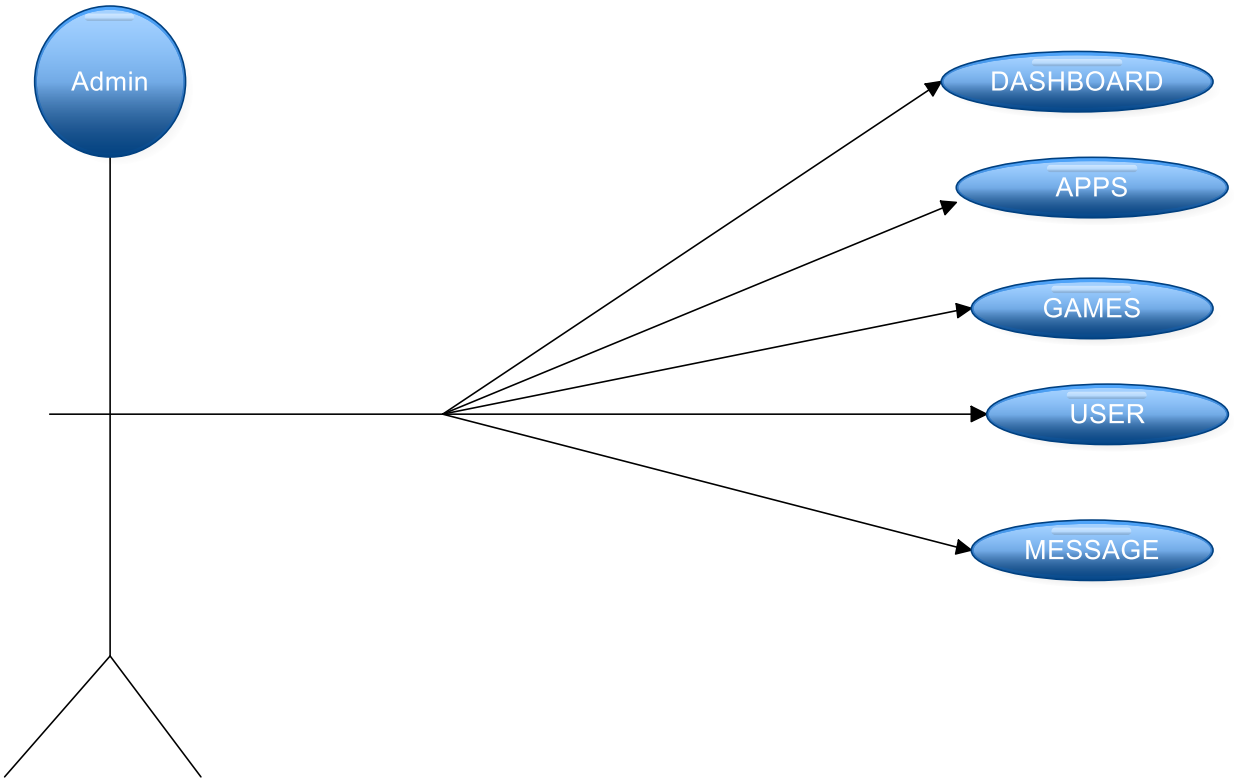
Entity

❖ E-R DIAGRAM:-

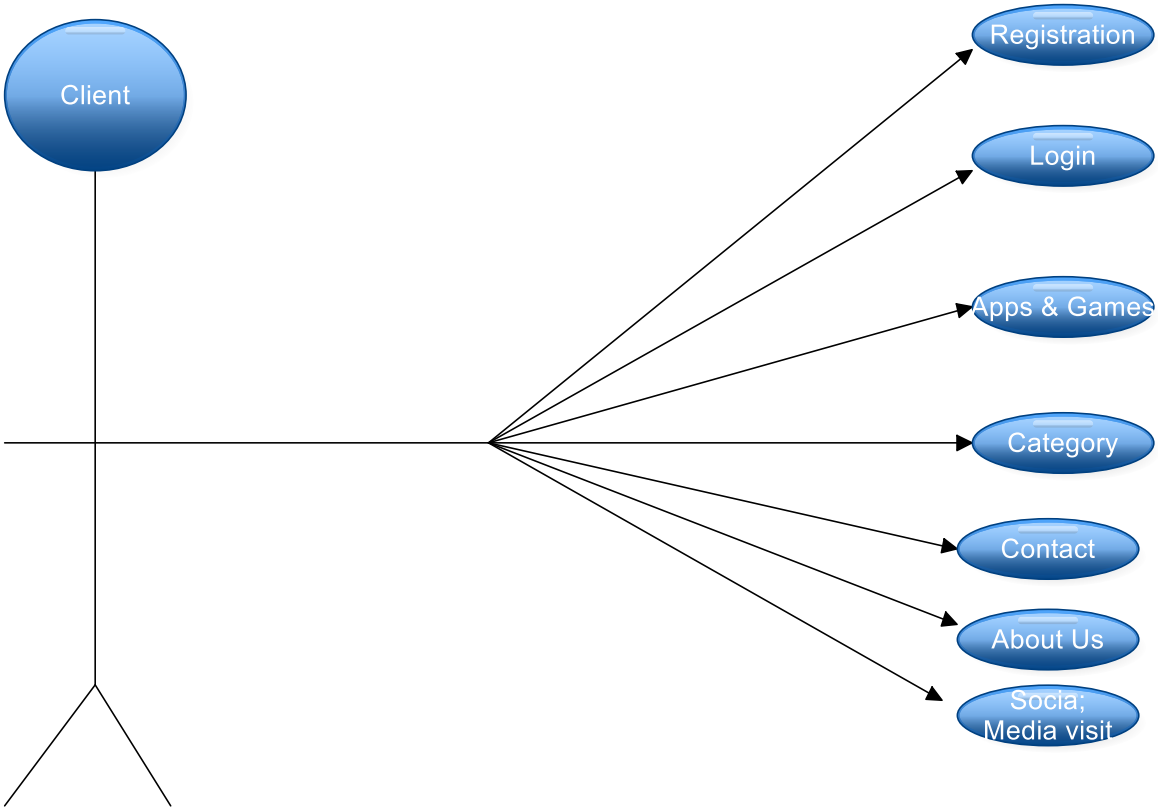

App Name
ID
App Type
Apps
Login
Categories
Description
App Icon
ZipFile
Logout
FName
Id
LName
User
Password
Email
Has
FName
User id
LName
Contect
Email
Msg

❖ USECASE FOR

➢ USECASE FOR ADMIN:-

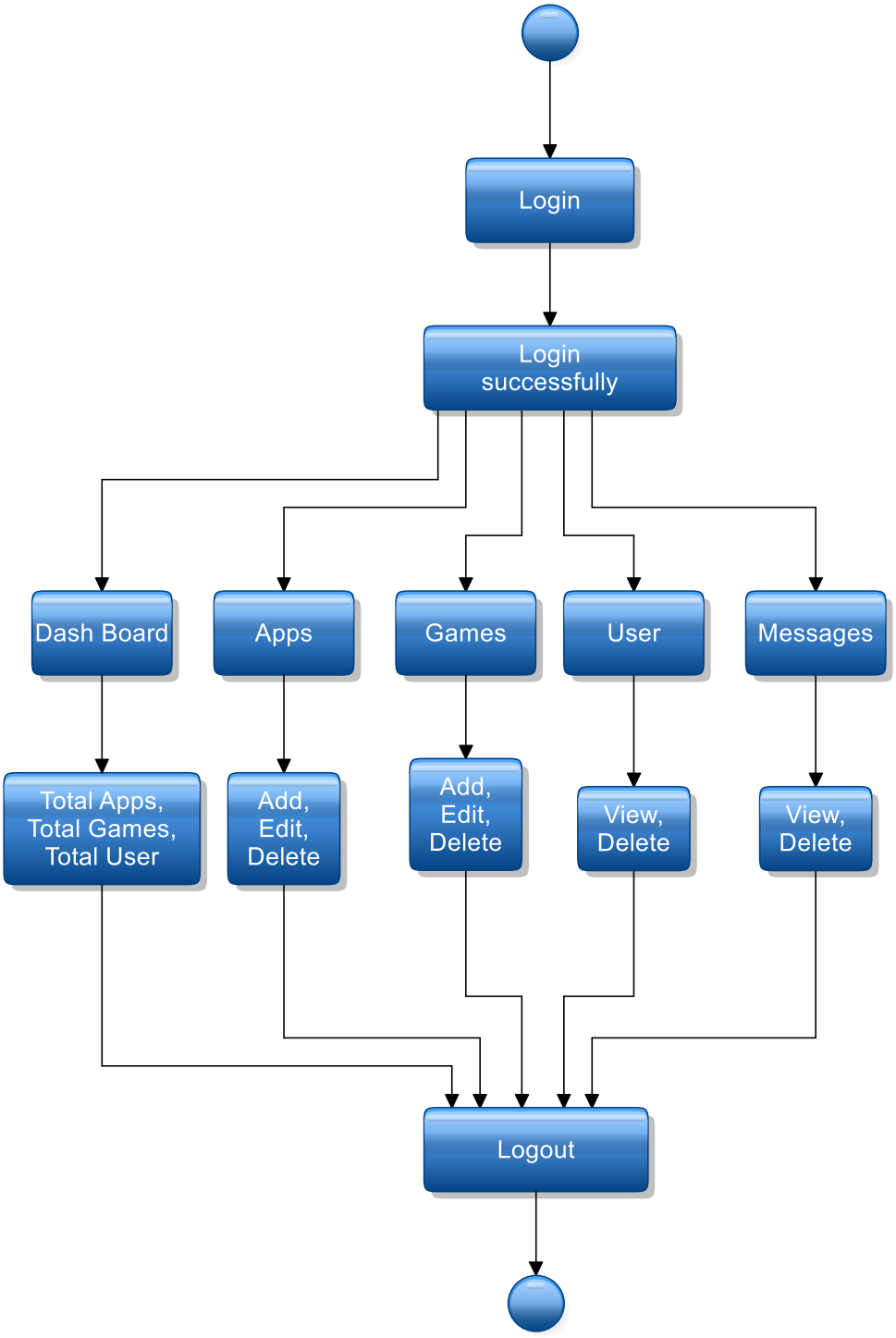


❖ USECASE FOR USER:-

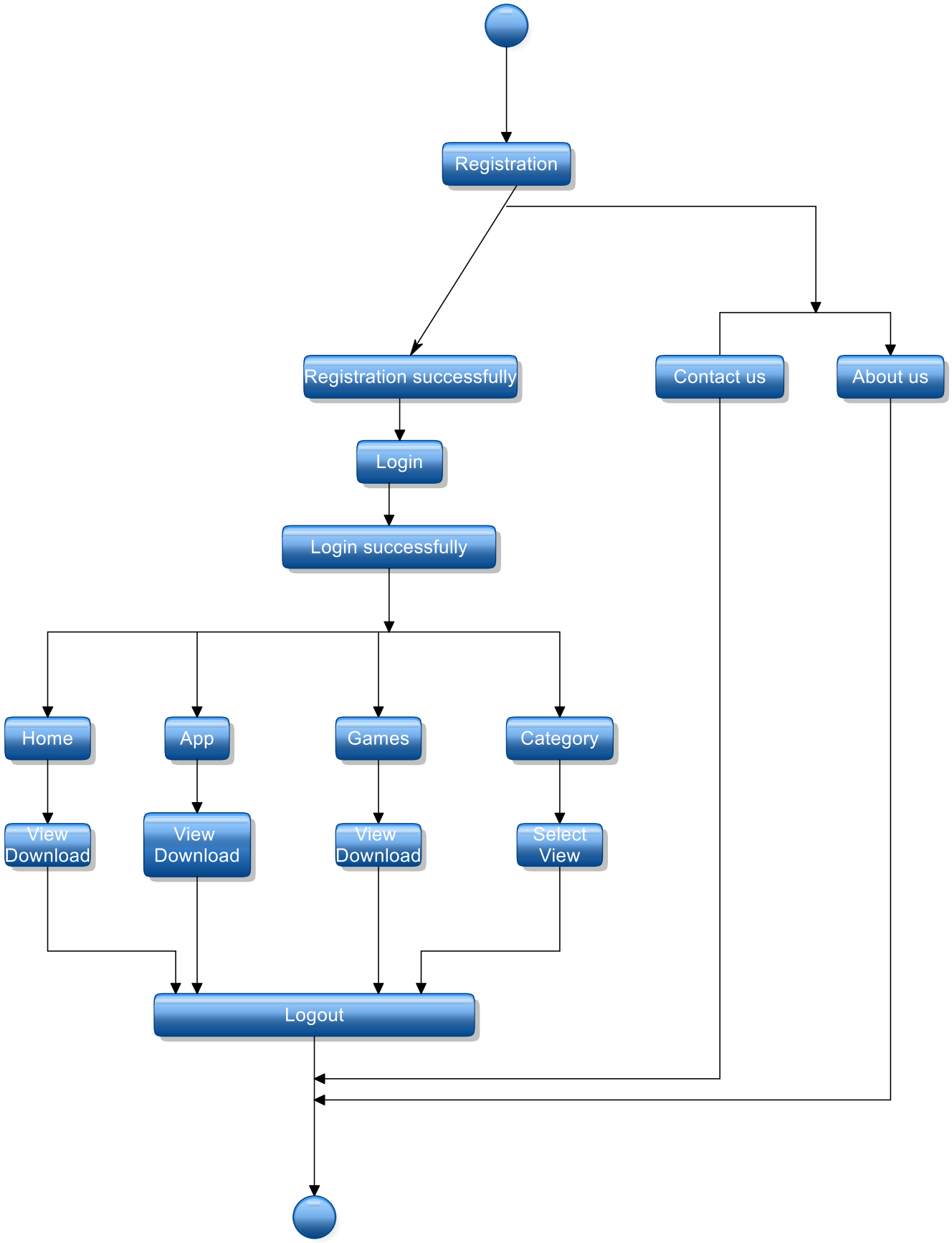


❖ ACTIVITY DIAGRAM:-

➢ ADMIN:-



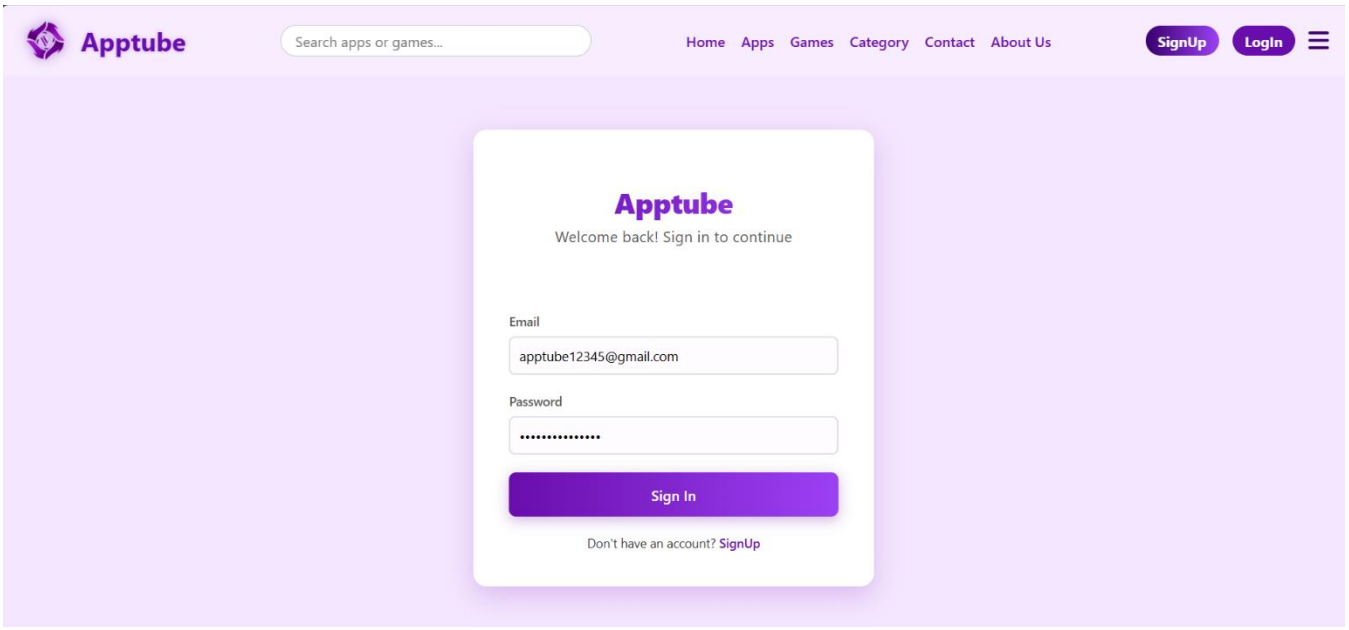
➢ CLIENT :-


Registration
Registration successfully
Contact us
About us
Login
Login successfully
Home
App
Games
Category
View Download
View Download
View Download
Select View
Logout

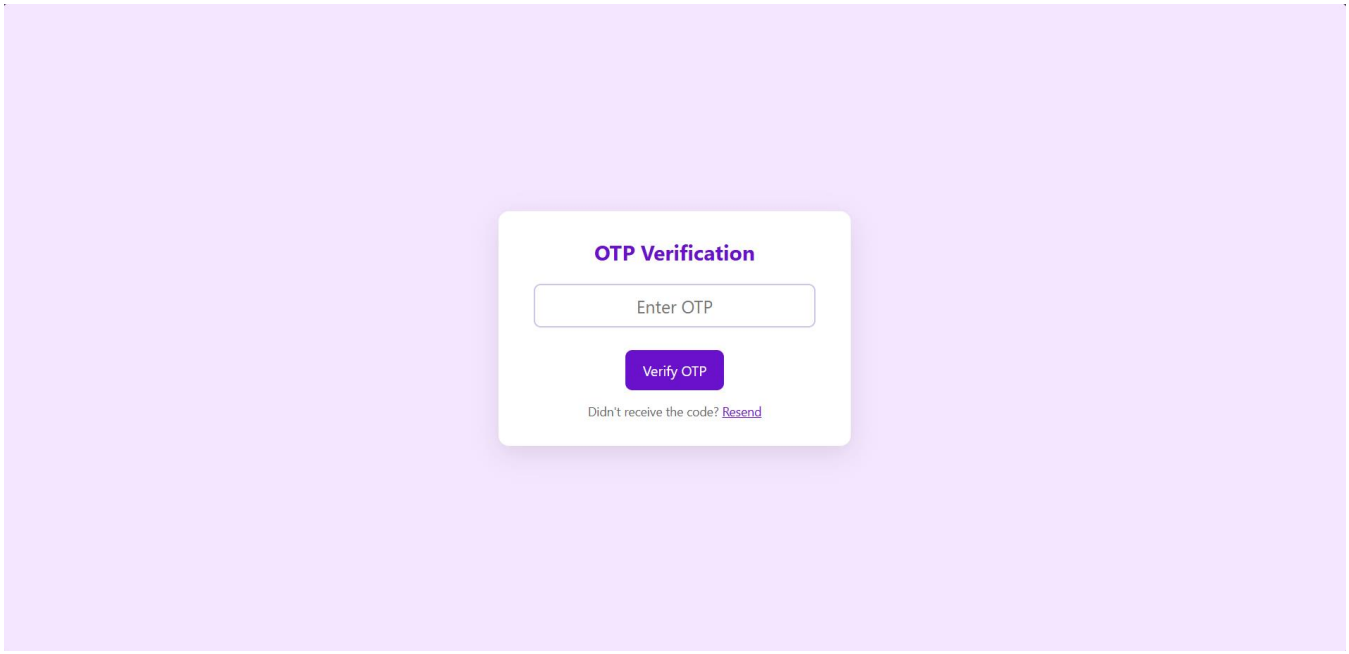
❖ SYSTEM DESIGN

➢ ADMIN SIDE DESIGN

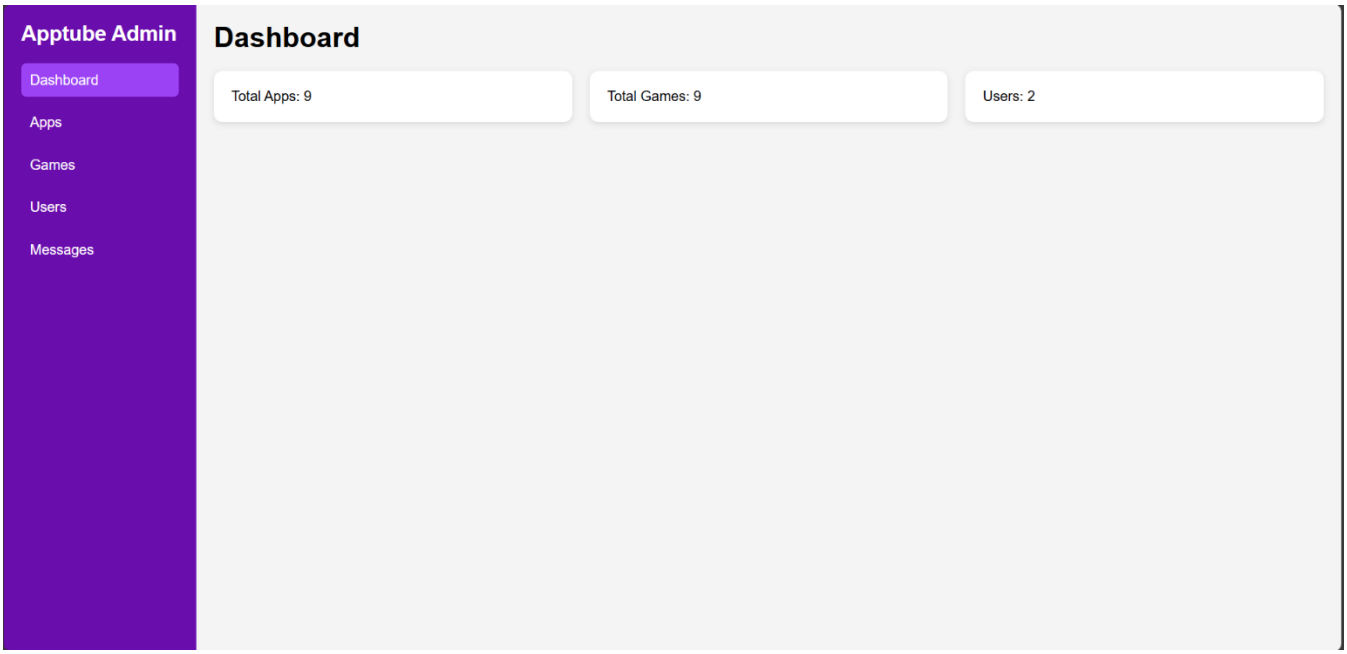
- **ADMIN LOGING PAGE**



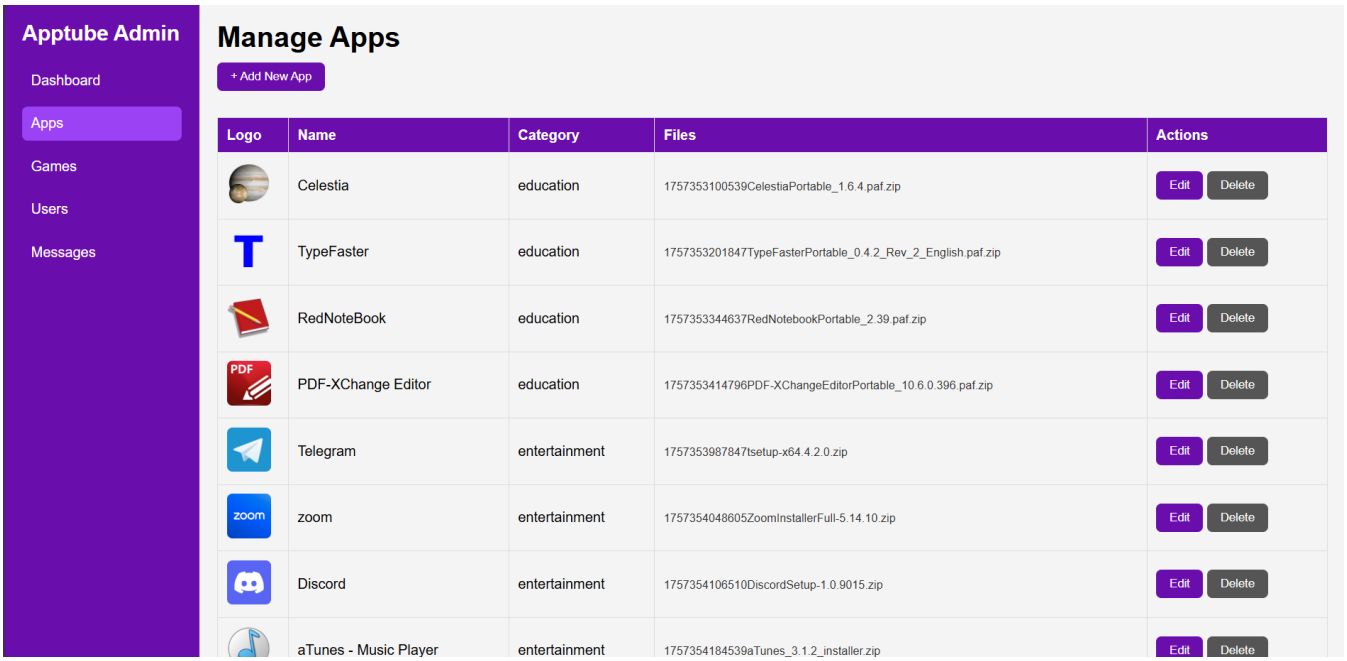
- **OTP PAGE**



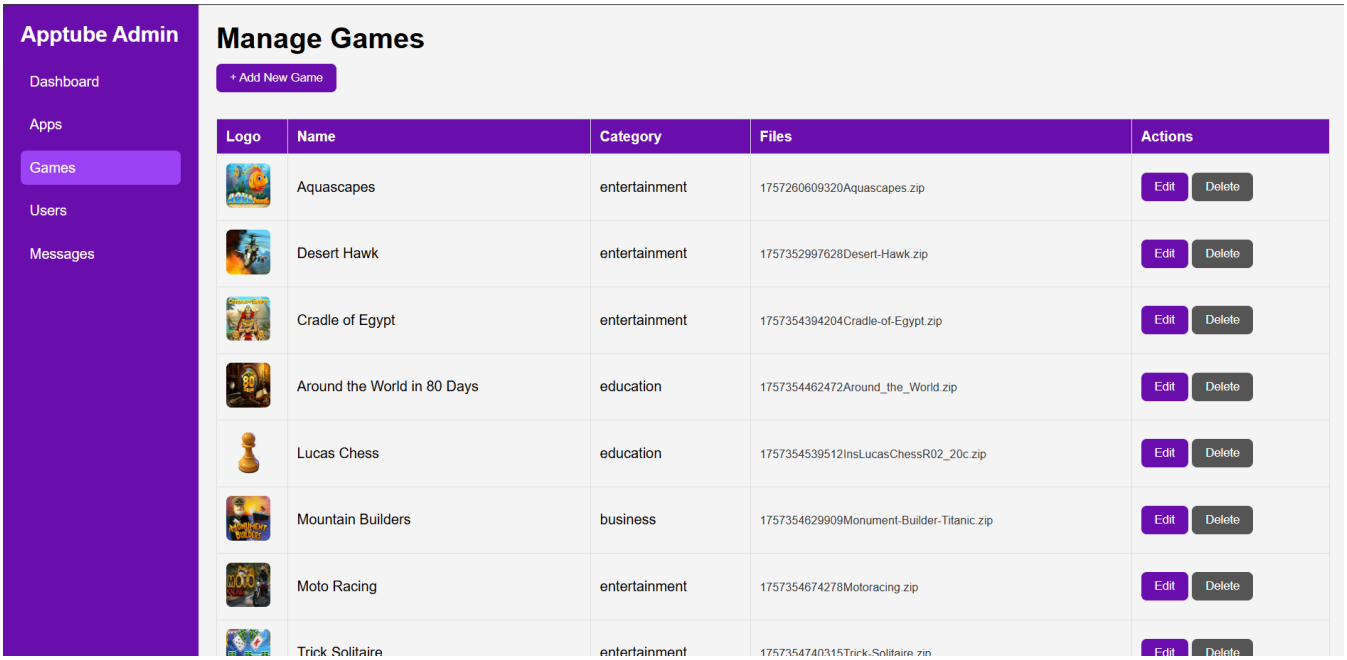
- **DASHBOARD PAGE**



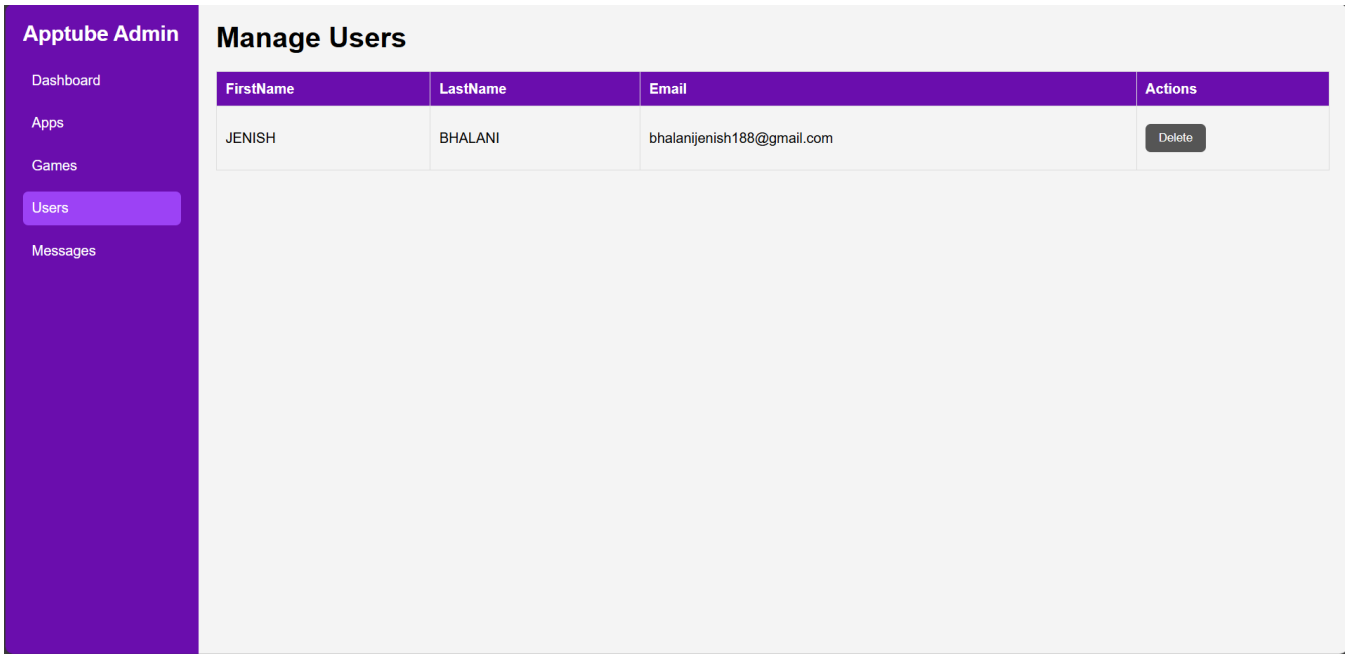
- **APPS PAGE**



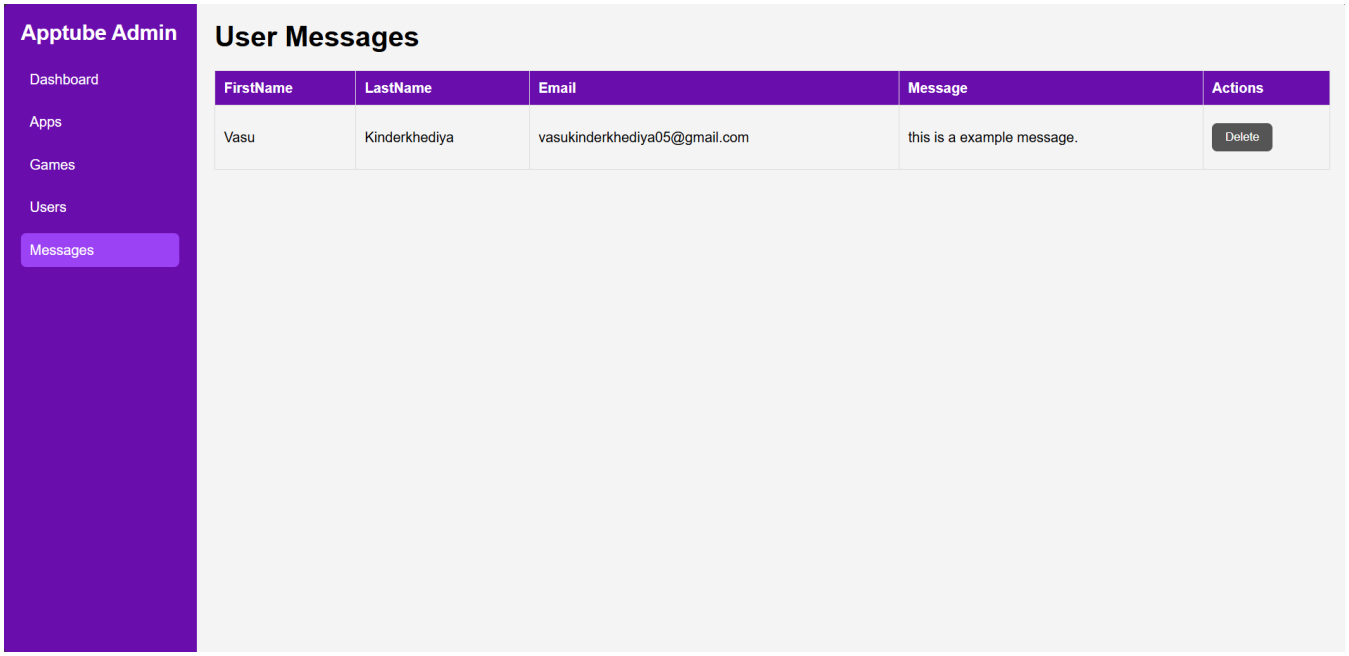
- **GAMES PAGE**



- **USER PAGE**

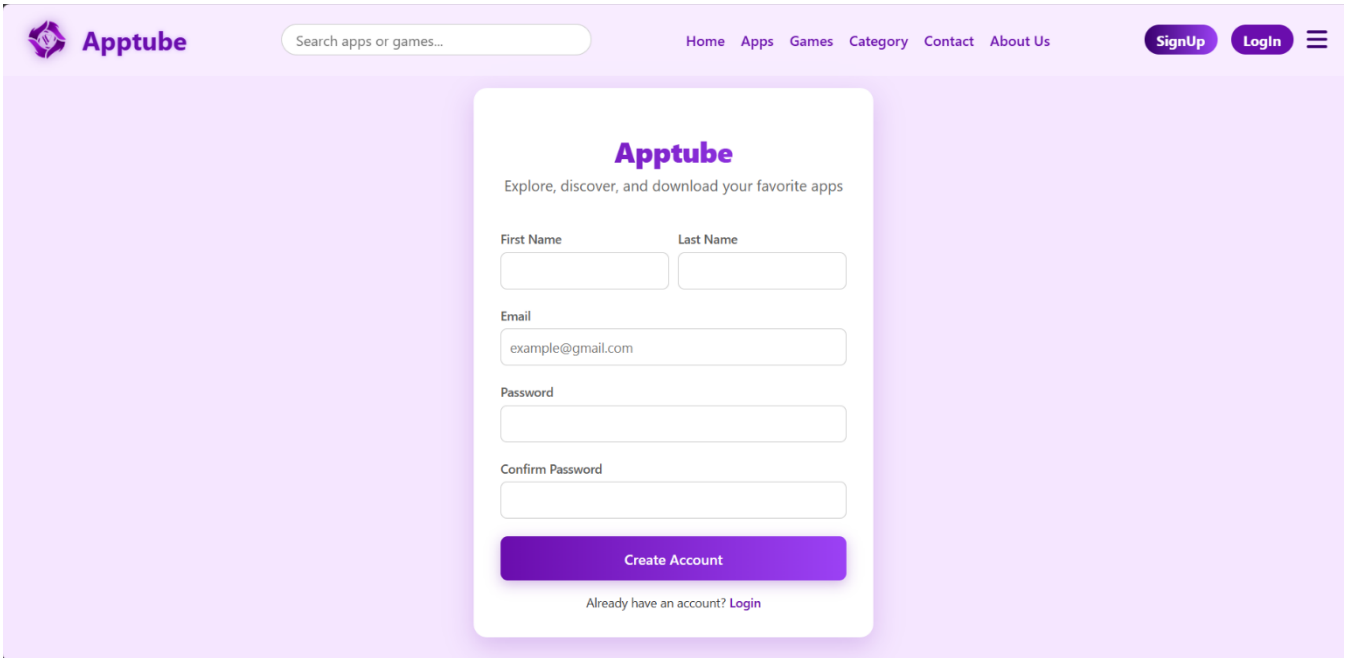


· MESSAGE PAGE

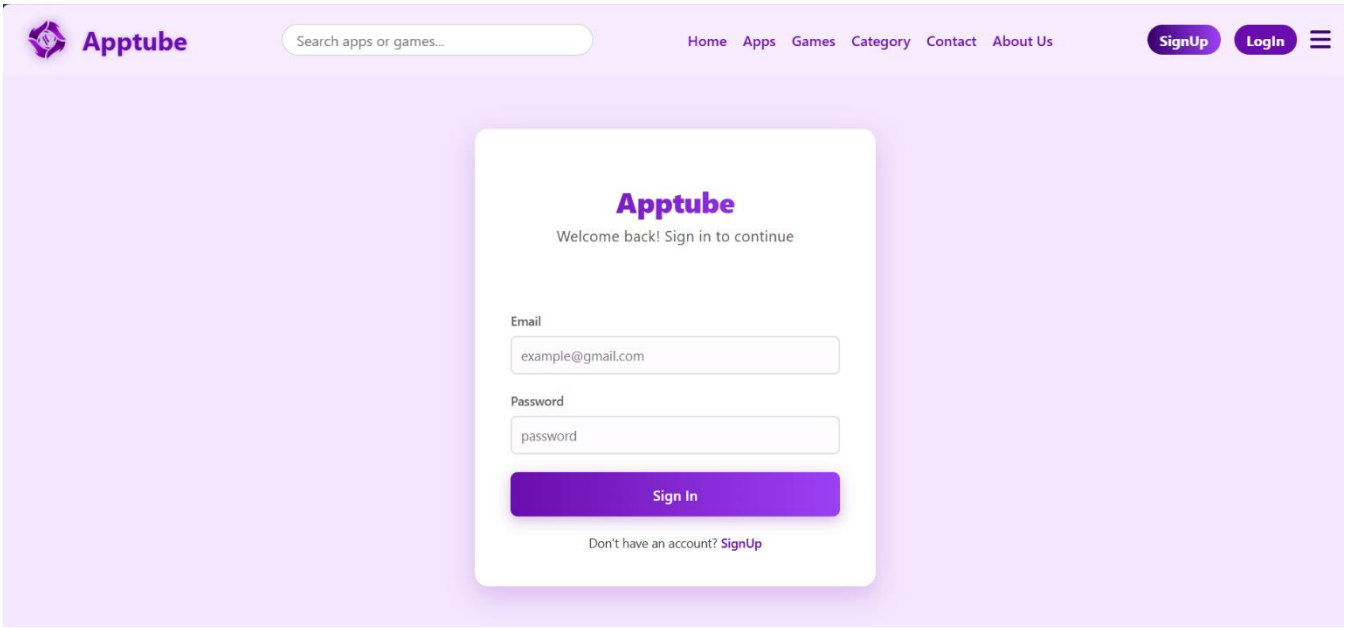


➢ CLIENT SIDE DESIGN

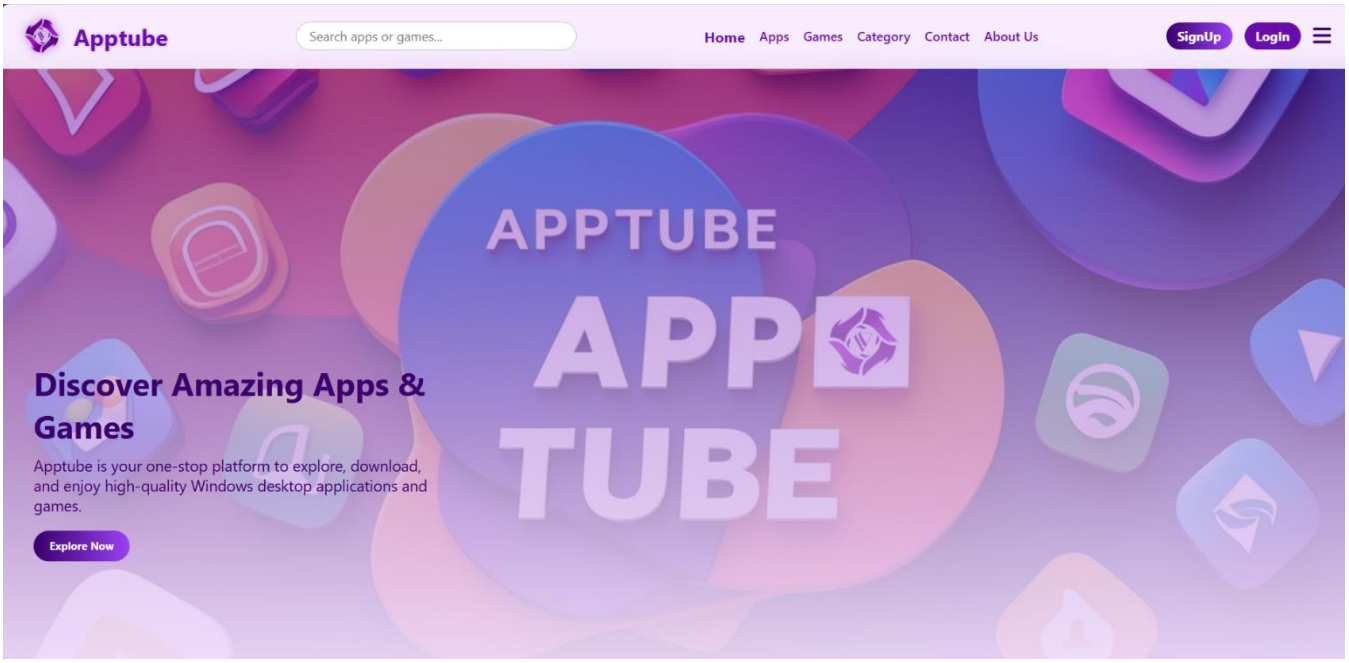
- **REGISTRATION PAGE**



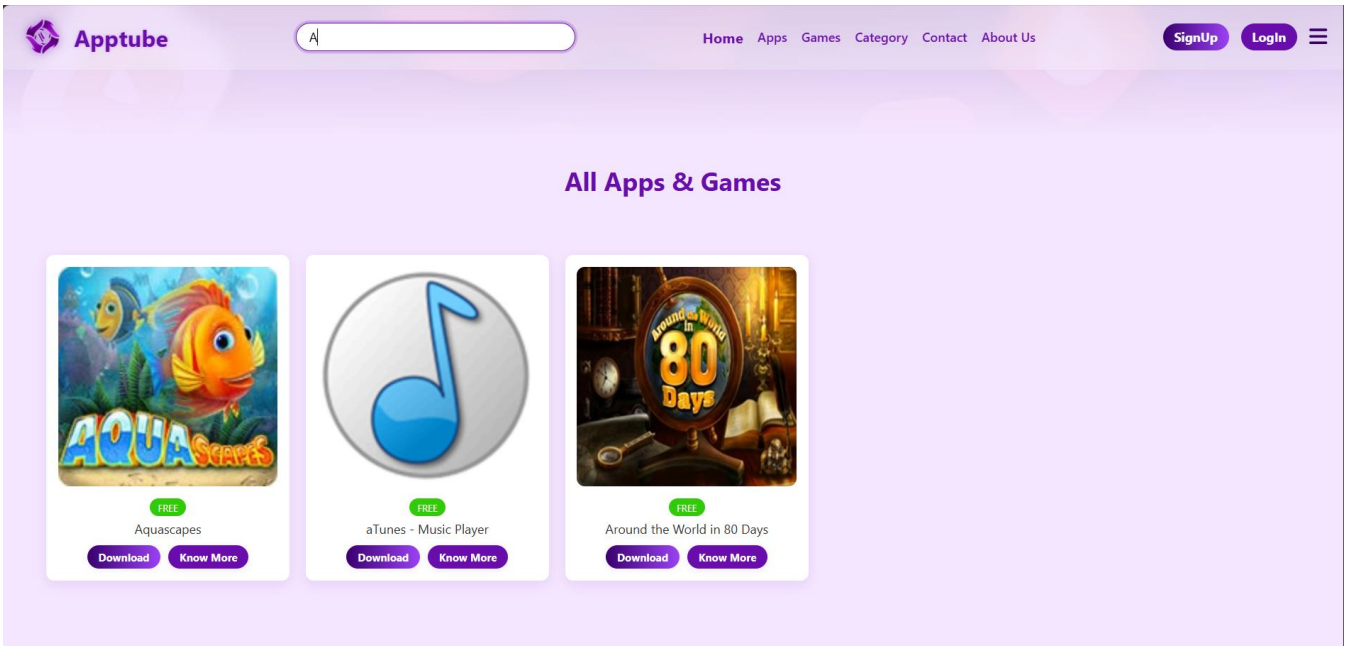
- **LOGING PAGE**



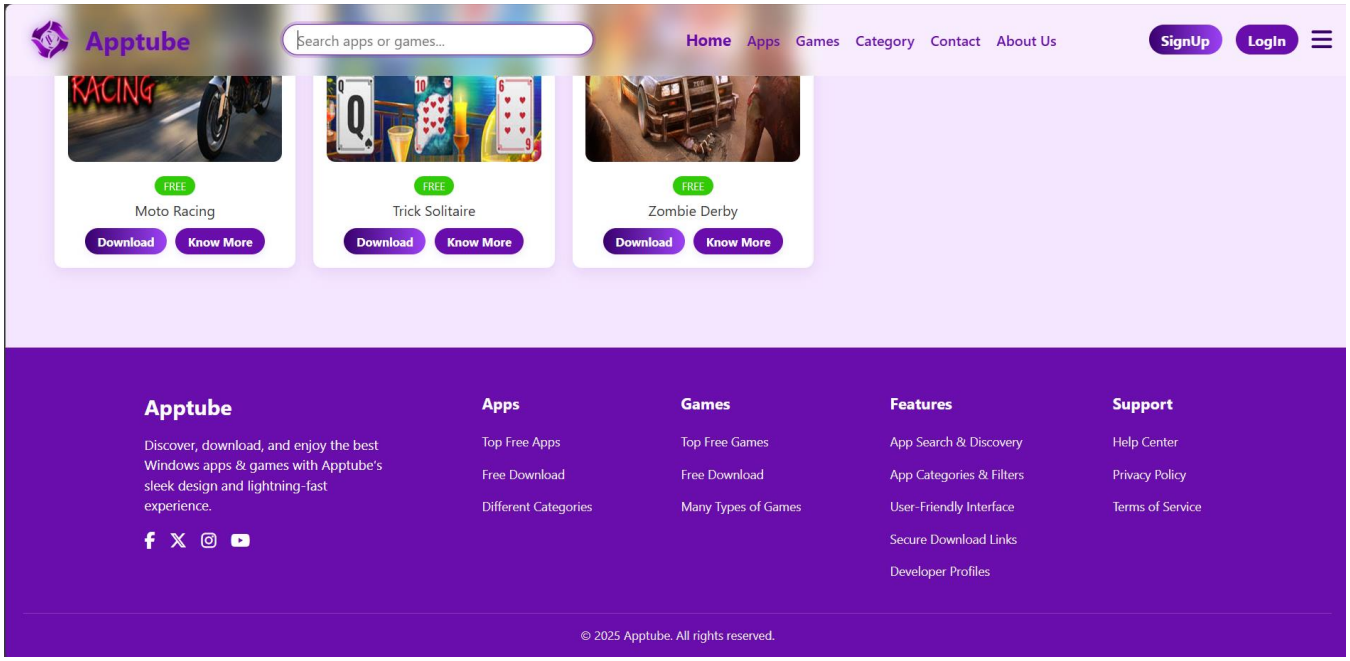
- **HOME PAGE - BANNER**



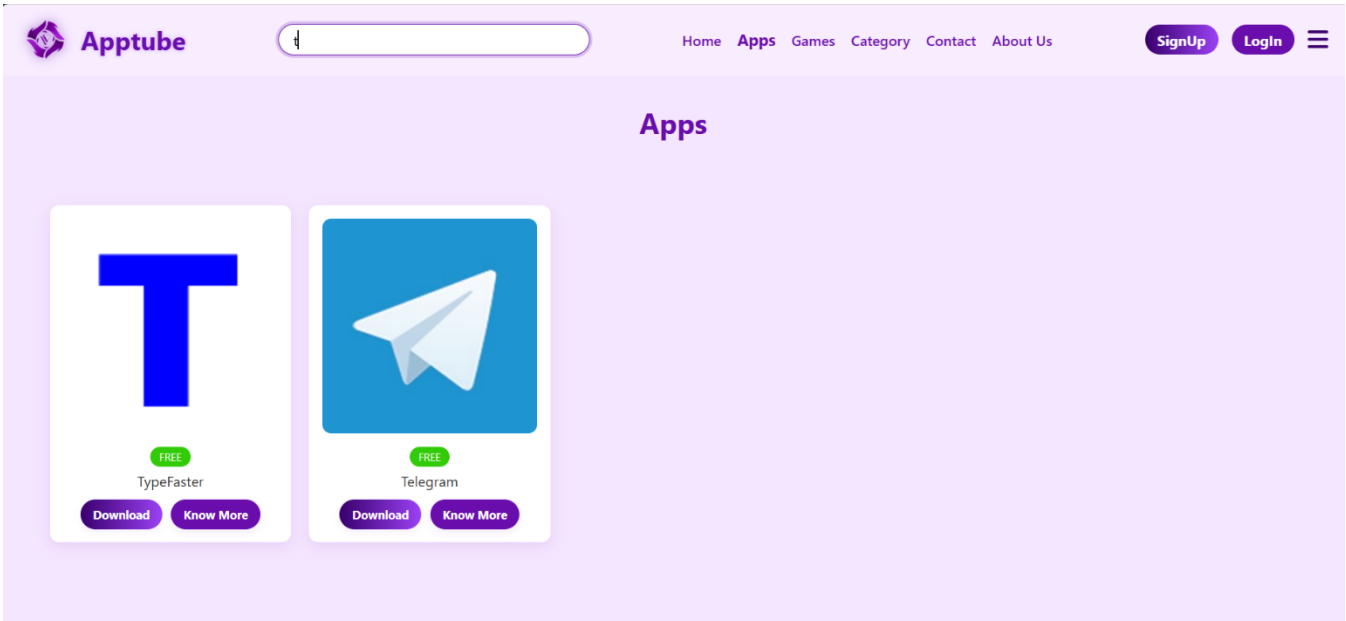
- **HOME PAGE – ALL APPS**



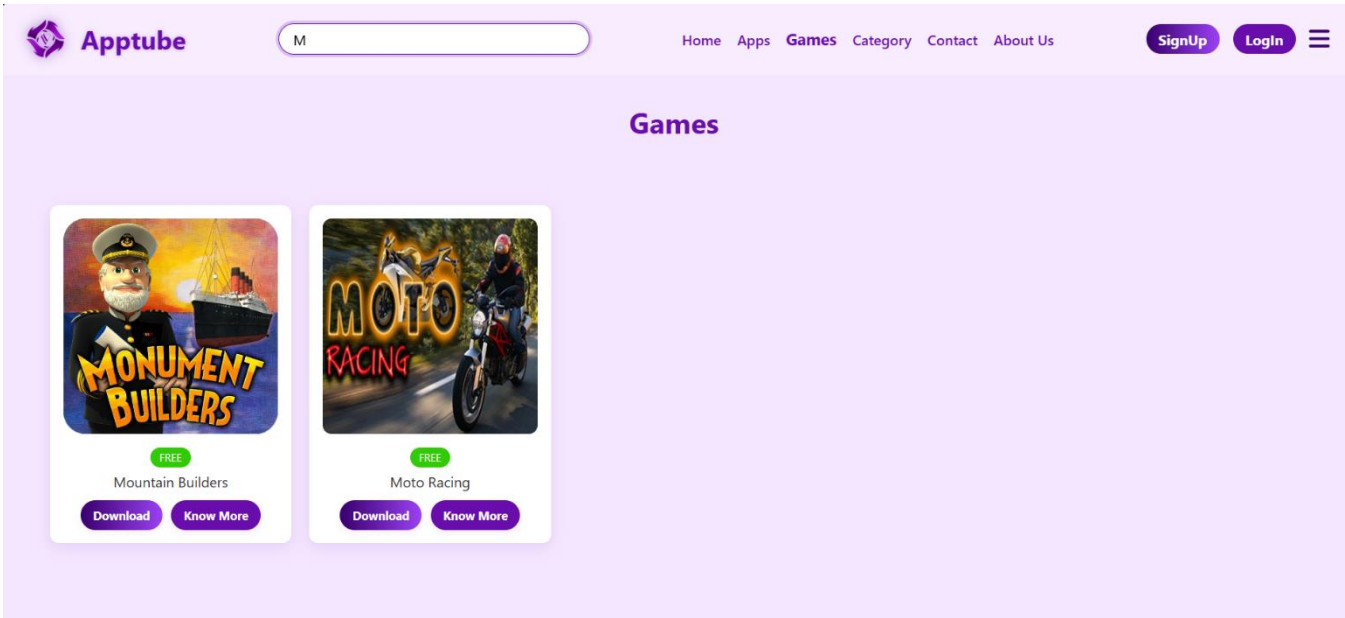
- **HOME PAGE - FOOTER**



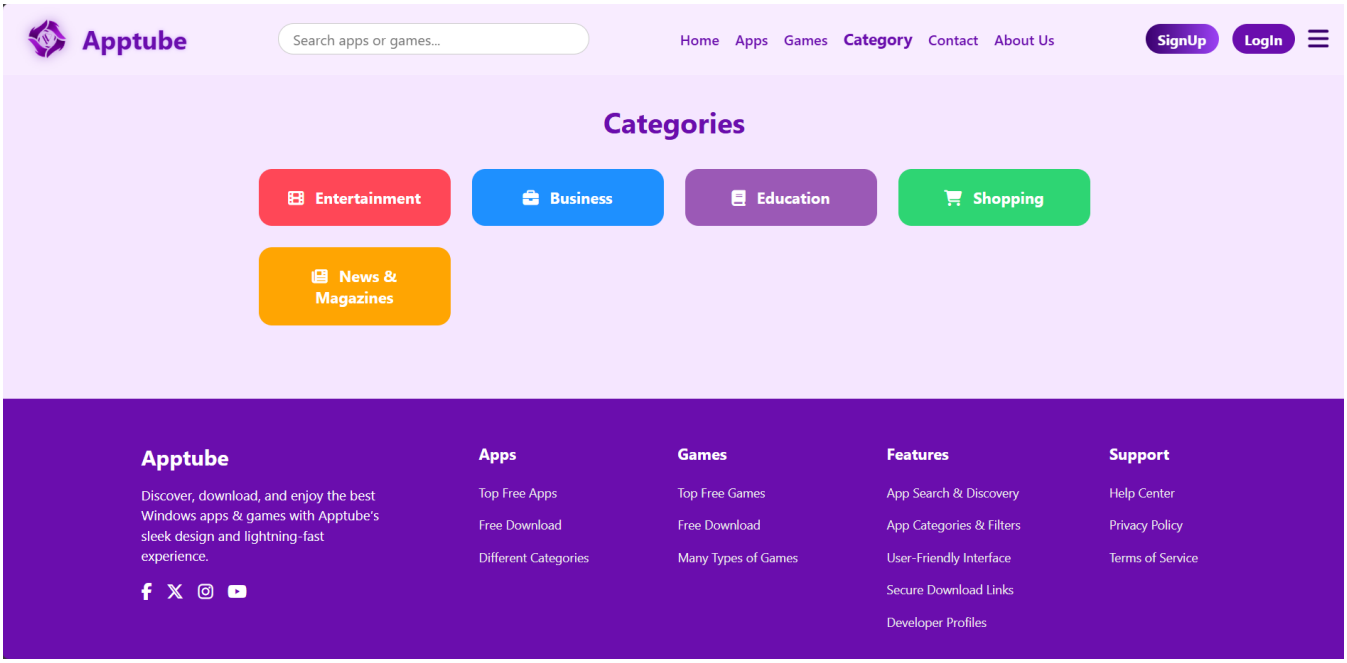
- **APPS PAGE**



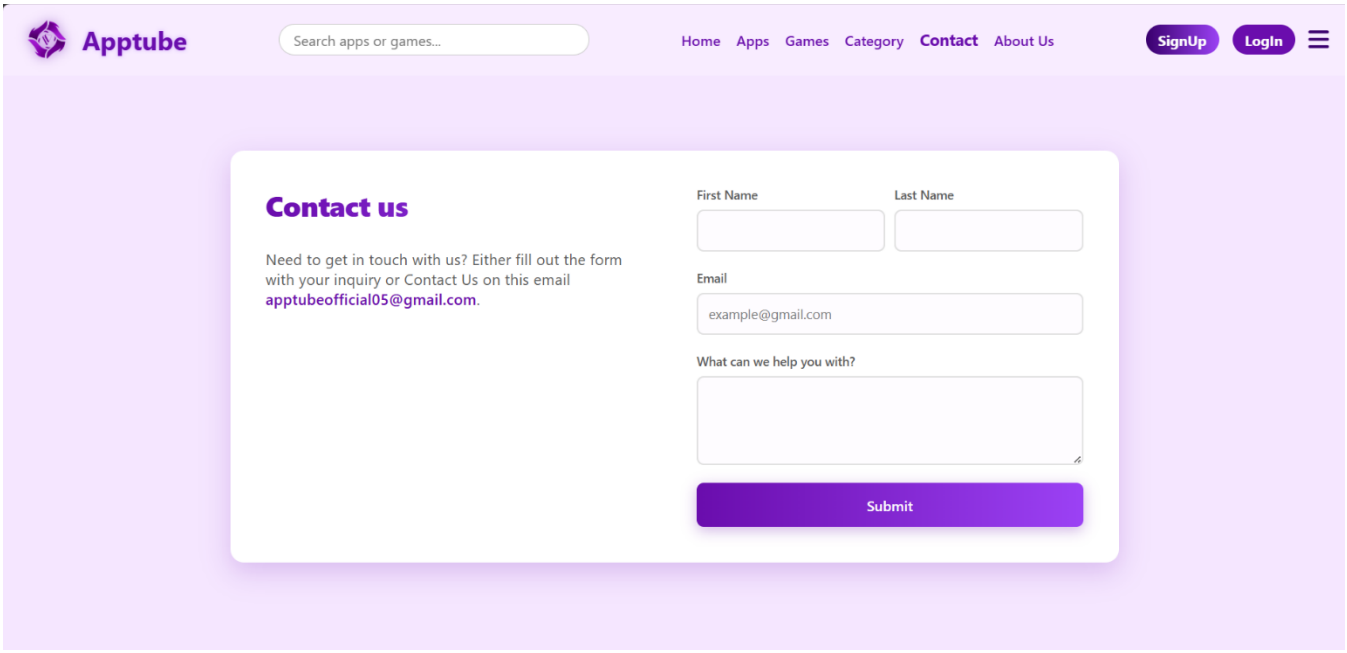
- **GAMES PAGE**



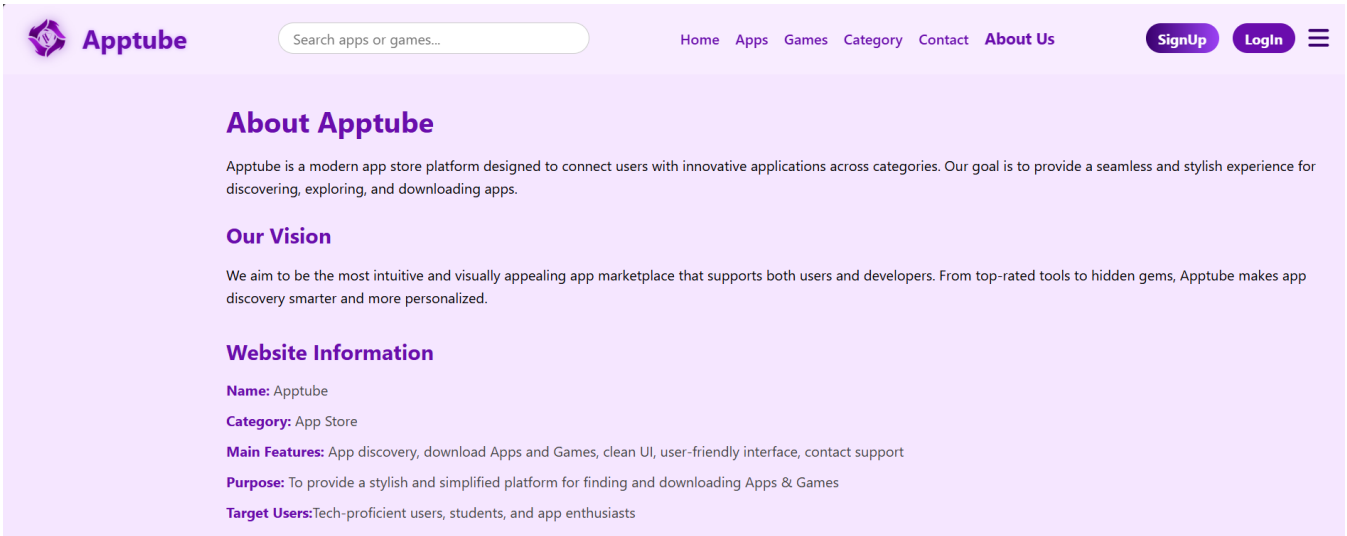
- **CATEGORIES PAGE**



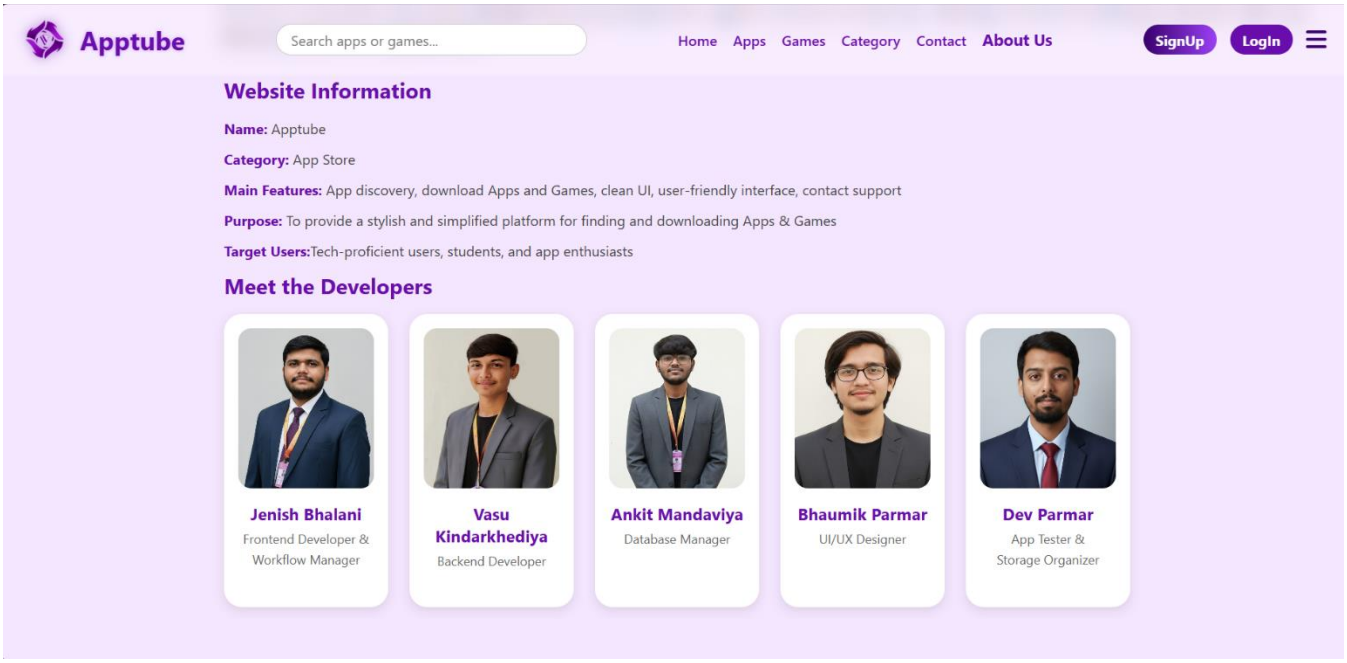
- **CONTACT PAGE**



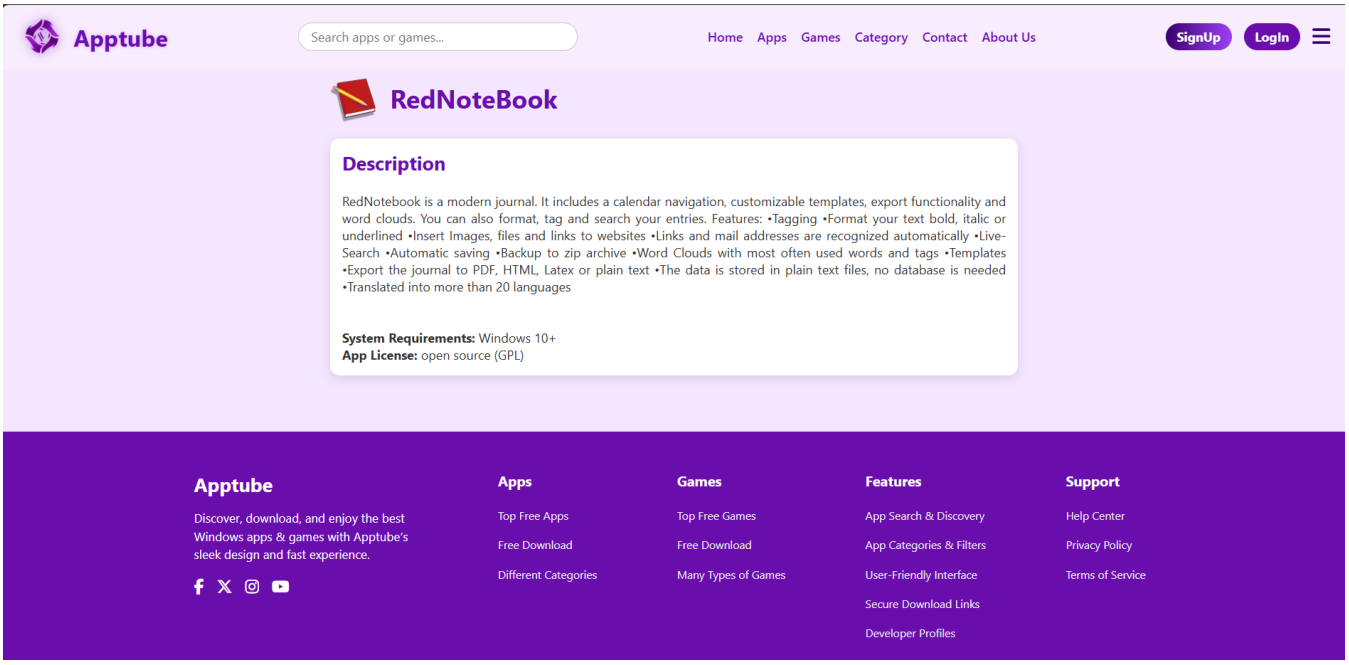
- **ABOUT US PAGE**



- **ABOUT US PAGE - DEVELOPERS**

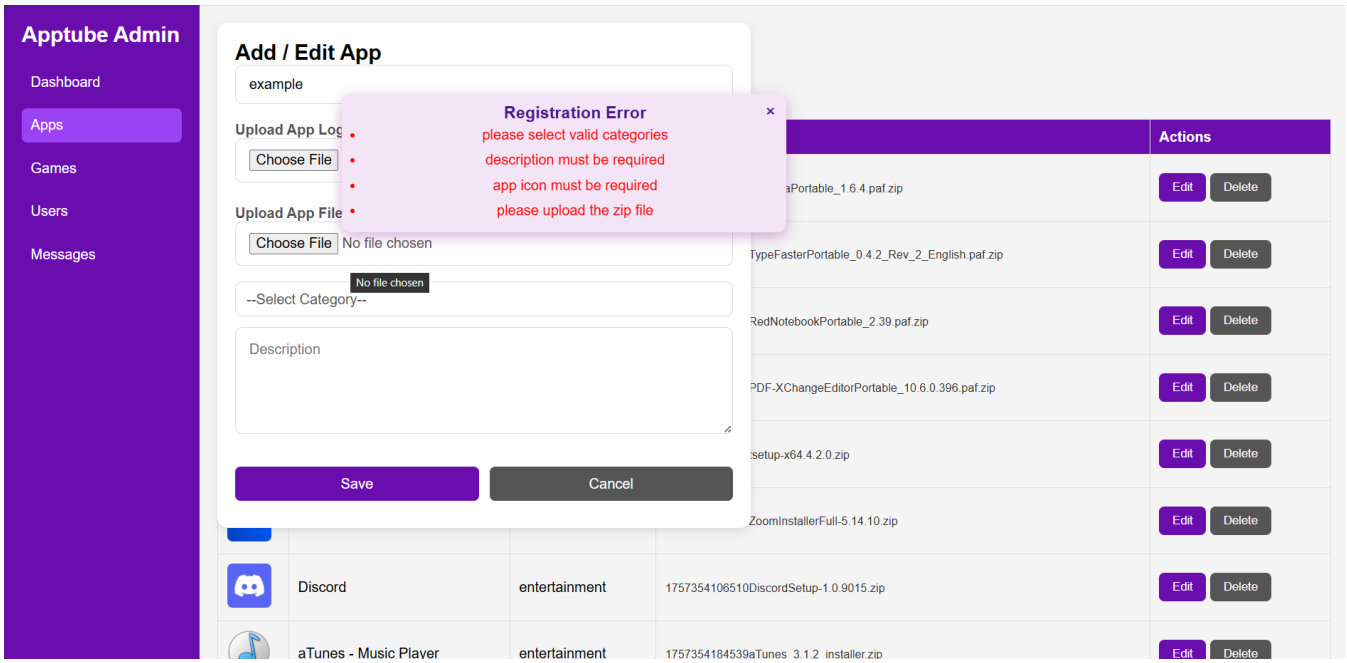


- **KNOW MORE PAGE**



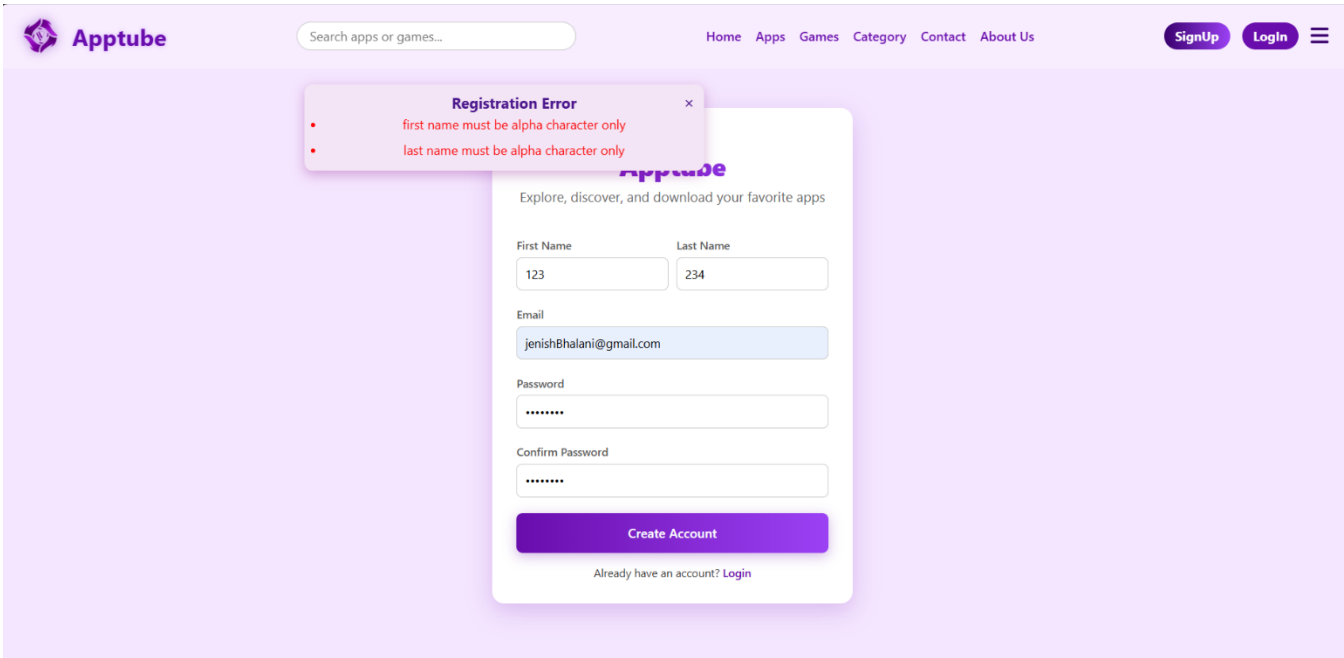
➢ ADMIN SIDE VALIDATION

- **ADD APPS & GAMES VALIDATION**

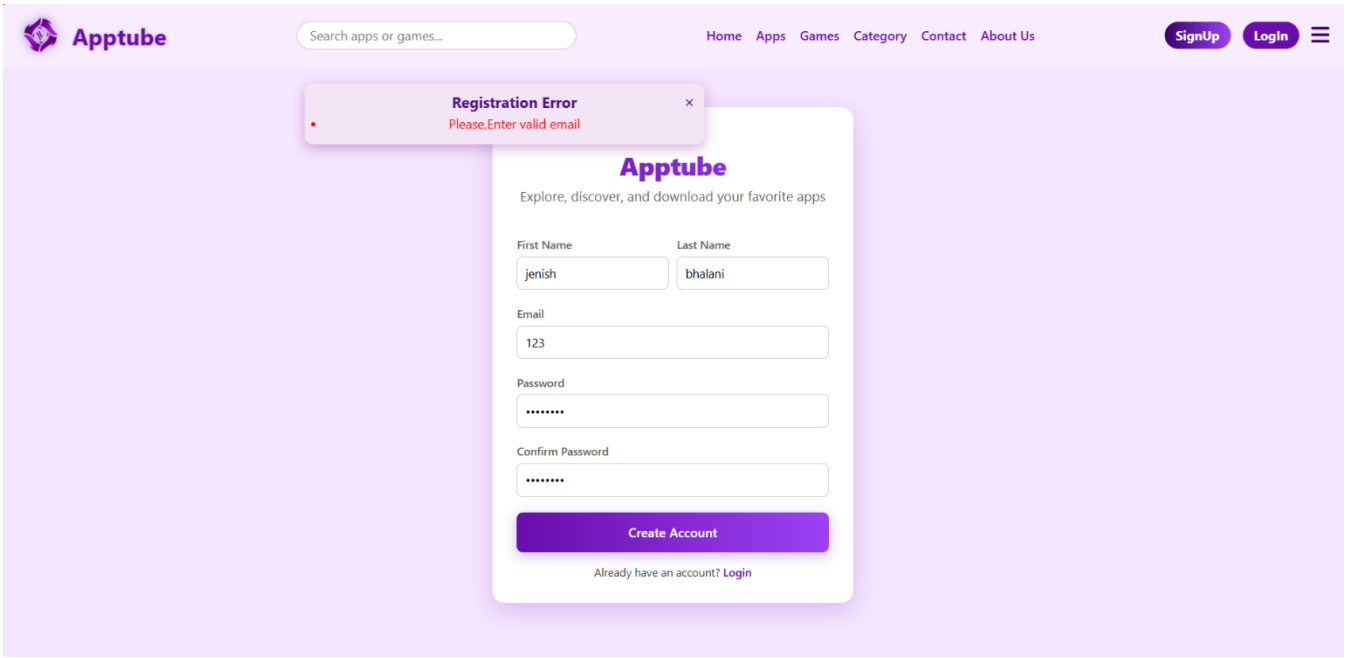


➢ CLIENT SIDE VALIDATION

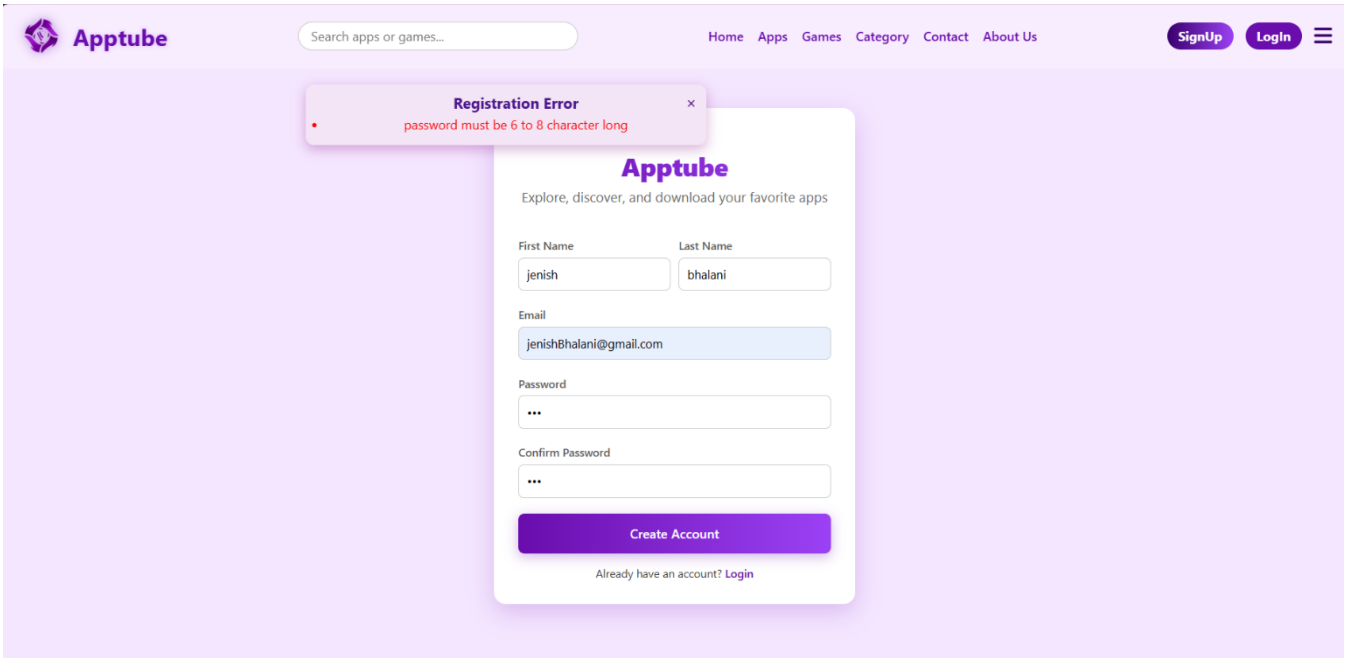
- **USER NAME VALIDATION**



- **EMAIL VALIDATION**



- **PASSWORD VALIDATION**



❖ TESTING

Testing is the critical element of software quality assurance & represents the ultimate review of specification design and code generation.

❖ MANUAL TESTING

- **TEST CASE**

➢ Login

Case no.	Scenario	Sr.no	Action	Expected output	Actual output	Result
1	Login	A	User forgets to enter the username /password	Message window saying "Please Fill Out This Field"	Message window saying "Please Fill Out This Field	PASS
		B	User enters wrong username / password	Message window saying "Please Enter Valid Email/password"	Message window saying "Please Enter Valid Email/password"	PASS
		C	User enters correct username / password	Takes user to Homepage	Takes user to Homepage	PASS

➢ Registration

Case no.	Scenario	Sr.no	Action	Expected Output	Actiual Output	Result
2.	Registration	A	User enters wrong first name, last name	Message window saying “first name , last name must be alpha character”	Message window saying “first name , last name must be alpha character”	**PASS**
		B	User enter wrong email format	Message window saying “please enter valid email”	Message window saying “please enter valid email”	**PASS**
		C	User enters does not enters some record	Message window saying “please fill out this filed”	Message window saying “please fill out this filed”	**PASS**
		D	User enters wrong password in confirm password	Message window saying “please enter the valid confirm password”	Message window saying “please enter the valid confirm password”	**PASS**

❖ CONCLUSION

The **APPTUBE** Project is an online Apps & Games downloading website where users can download Apps and Games of different categories.

Through search bar user can search for different apps and games by it's name and they can download it by clicking on the download button or then can view info about the app or game by clicking on know more button.

We think that our project has all the features that are required for an App store.

Also we have a very easy to understand and user friendly interface of the website so that users can access our site easily

❖ BIBLIOGRAPHY

➢ Website referred:-

https://apkpure.net

https://store.stempowered.com

https://play.google.com

https://www.apple.com

https://apps.microsoft.com

❖ PROJECT TASK REPORT

Project Name:- “APPTUBE”

Faculty name:- Prof. Jay Prakash Vyas

Student Name:- MANDAVIYA ANKIT

BHALANI JENISH

KINDERKHEDIYA VASU

Sr.no	Start date	End date	Project Task	Faculty sign	Student sign
1	17-06-2025	27-06-2025	Information Gathering		
2	28-06-2025	03-07-2025	Requirement Analysis		
3	04-07-2025	13-07-2025	Feasibility Study		
4	14-07-2025	22-07-2025	Database Designing		
5	23-08-2025	26-08-2025	System Design & Coding		
6	27-08-2025	03-09-2025	Testing		
7	04-08-2025	13-09-2025	Final Implementation		
8	14-09-2025	18-09-2025	Documentation		