

A

Project Report

On

APPTUBE

Submitted By:

MANDAVIYA ANKIT

BHALANI JENISH

KINDERKHEDIYA VASU

B.C.A [SEM – 5]

Guided By;

PROF.: JayPrakash 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 helped me completing this project successfully.

First of all I am grateful to my project guide **Prof. JayPrakash Sir** who has guided 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 thank 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. JayPrakash 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. JayPrakash 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 exists 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

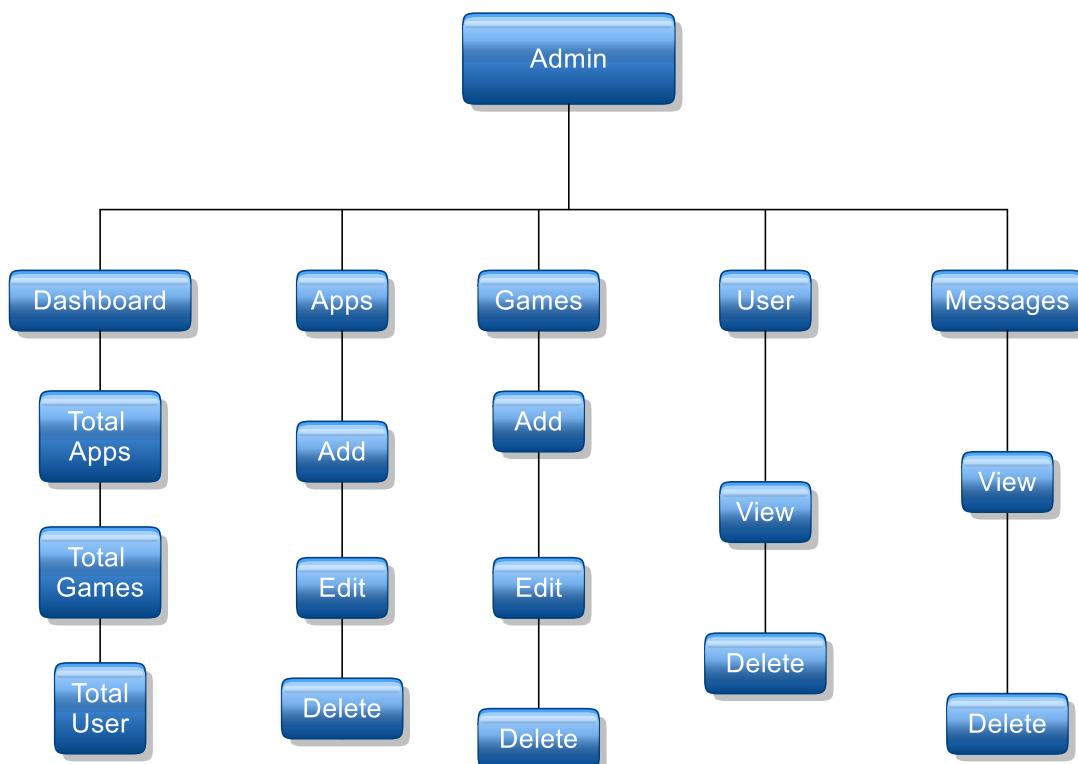
❖ REQUIREMENT ANALYSIS:-

- 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.

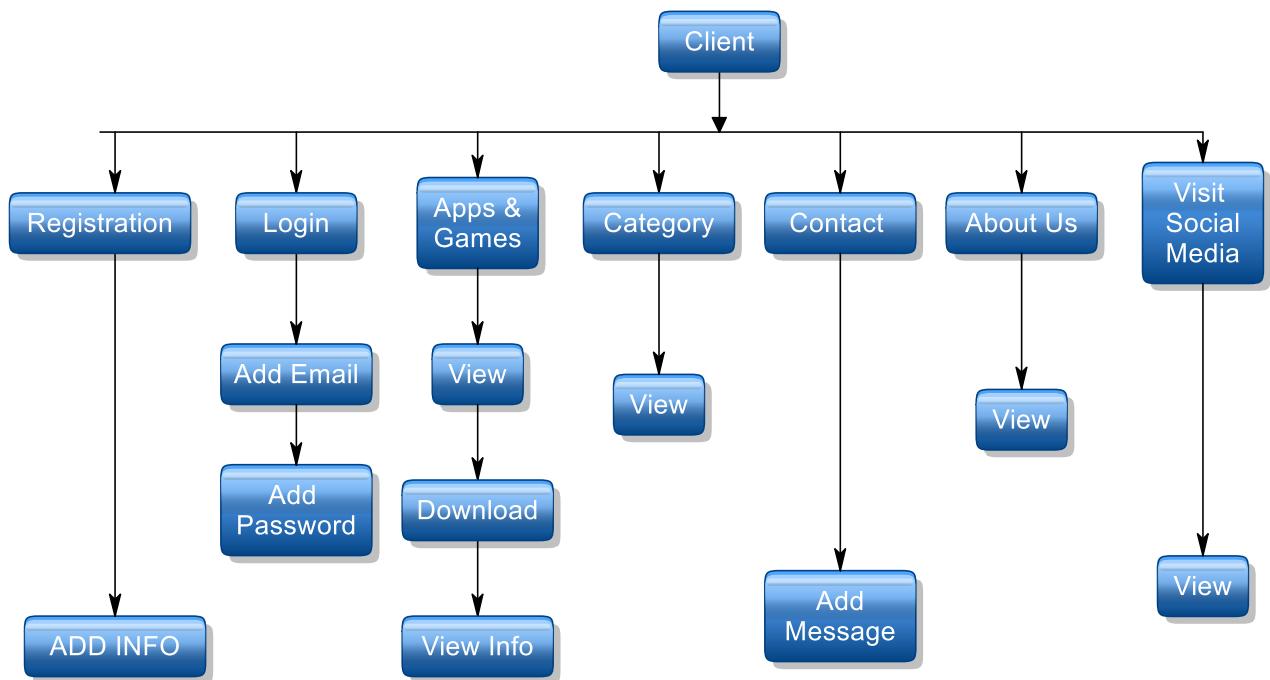
<u>ADMIN</u>	<u>Client</u>
Login	Login
Add Apps	Registration
Add Games	View app & games
Manage user	Download Apps & Games
Manage Contact	View category
	Contact us
	About us
	Visit our social – media

❖ PROJECT MODULE:-

➤ ADMIN:-



➤ CLIENT:-

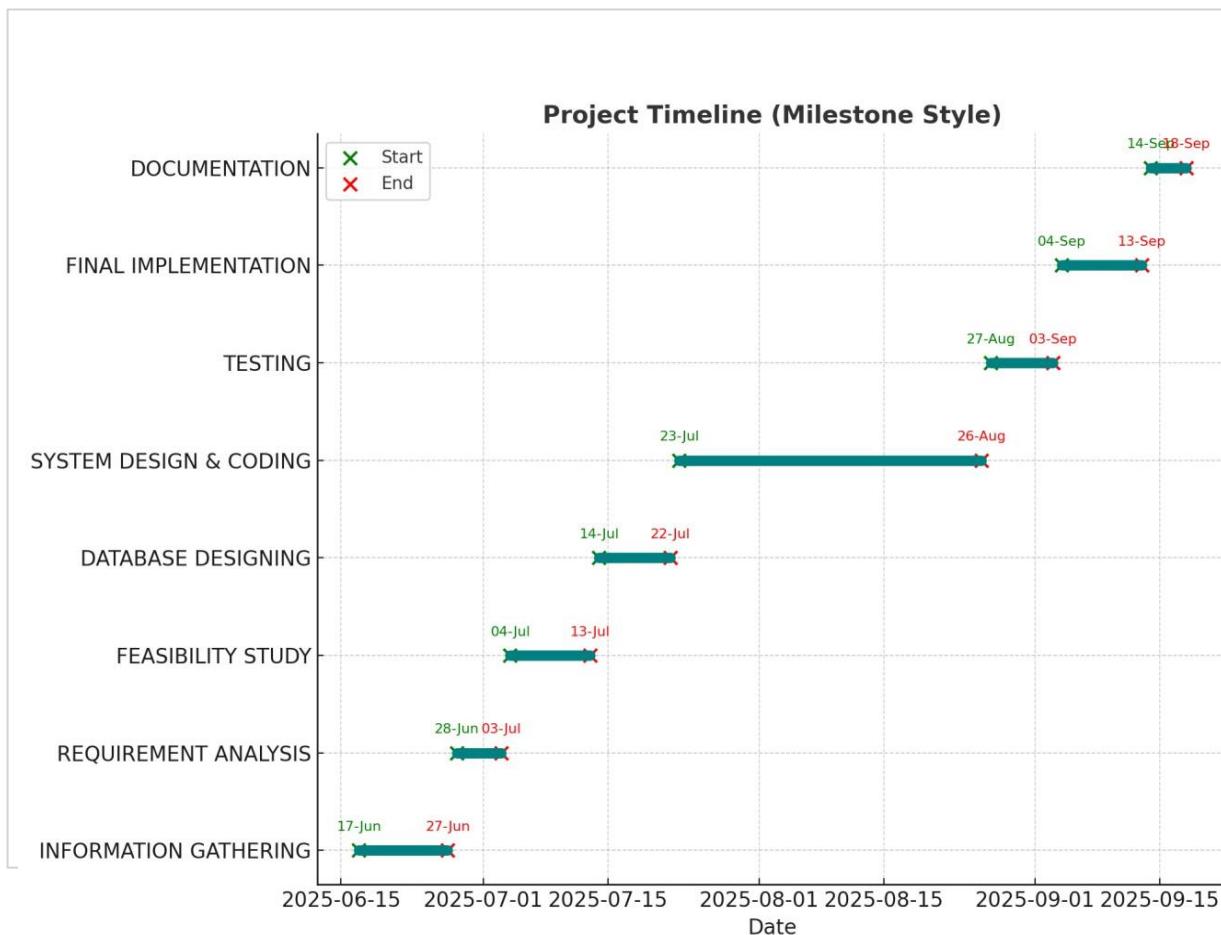


❖ SYSTEM STUDY:-

➤ PROJECT PLANNING:-

No.	Task	Starting Date	End Date	Duration
1.	Requirement Gathering	17-06-2025	27-07-2025	10 Days
2.	Requirement Analysis	28-06-2025	03-07-2025	6 Days
3.	Feasibility Study	04-07-2025	13-07-2025	10 Days
4.	Database Design	14-07-2025	22-07-2025	9 Days
5.	System Design & Coding	23-07-2025	26-08-2025	35 Days
6.	Testing	27-08-2025	03-09-2025	8 Days
7.	Final Implementation	04-09-2025	13-09-2025	10 Days
8.	Documentation	14-09-2025	18-09-2025	5 Days

➤ TIME LINE CHART:-



❖ FEASIBILITY STUDY:-

- A feasibility analysis usually involves a thorough 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	Effectected 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	MINIMUM 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	<u>www.nodejs.org</u>
MYSQL	FREE	<u>www.mysql.com</u>
Vs Code	FREE	<u>www.code.visualstudio.com</u>
Google Chrome	FREE	<u>www.mozilla.org</u>
MySQL to store apps	FREE	<u>www.mysql.com</u>

❖ 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 :-

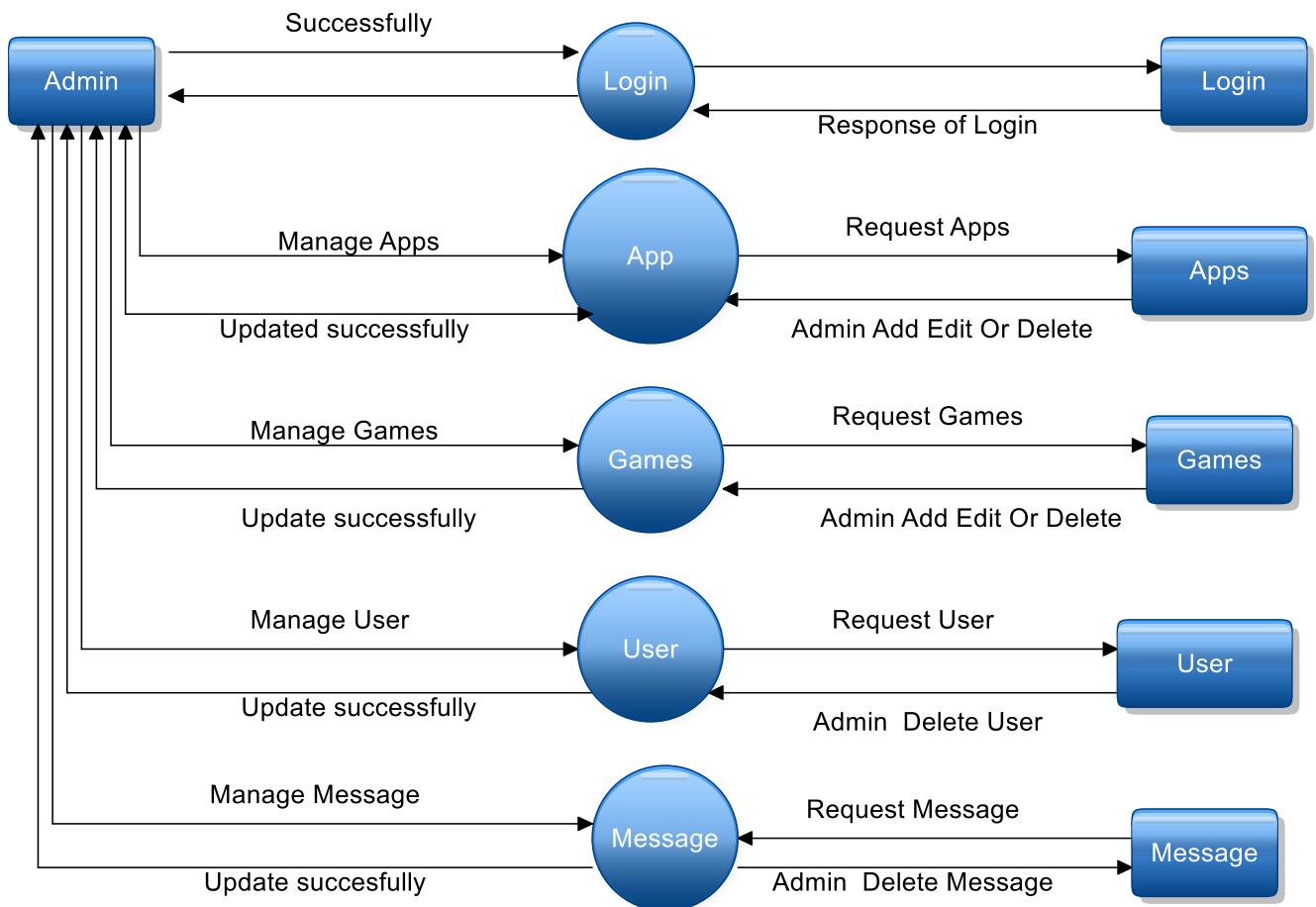
Column	Type	Null
User id (<i>Primary</i>)	Int	No
First Name	varchar(30)	Yes
Last Name	Varchar(30)	Yes
Email	Varchar(225)	Yes
Password	Long text	Yes

❖ DATA DIAGRAMS

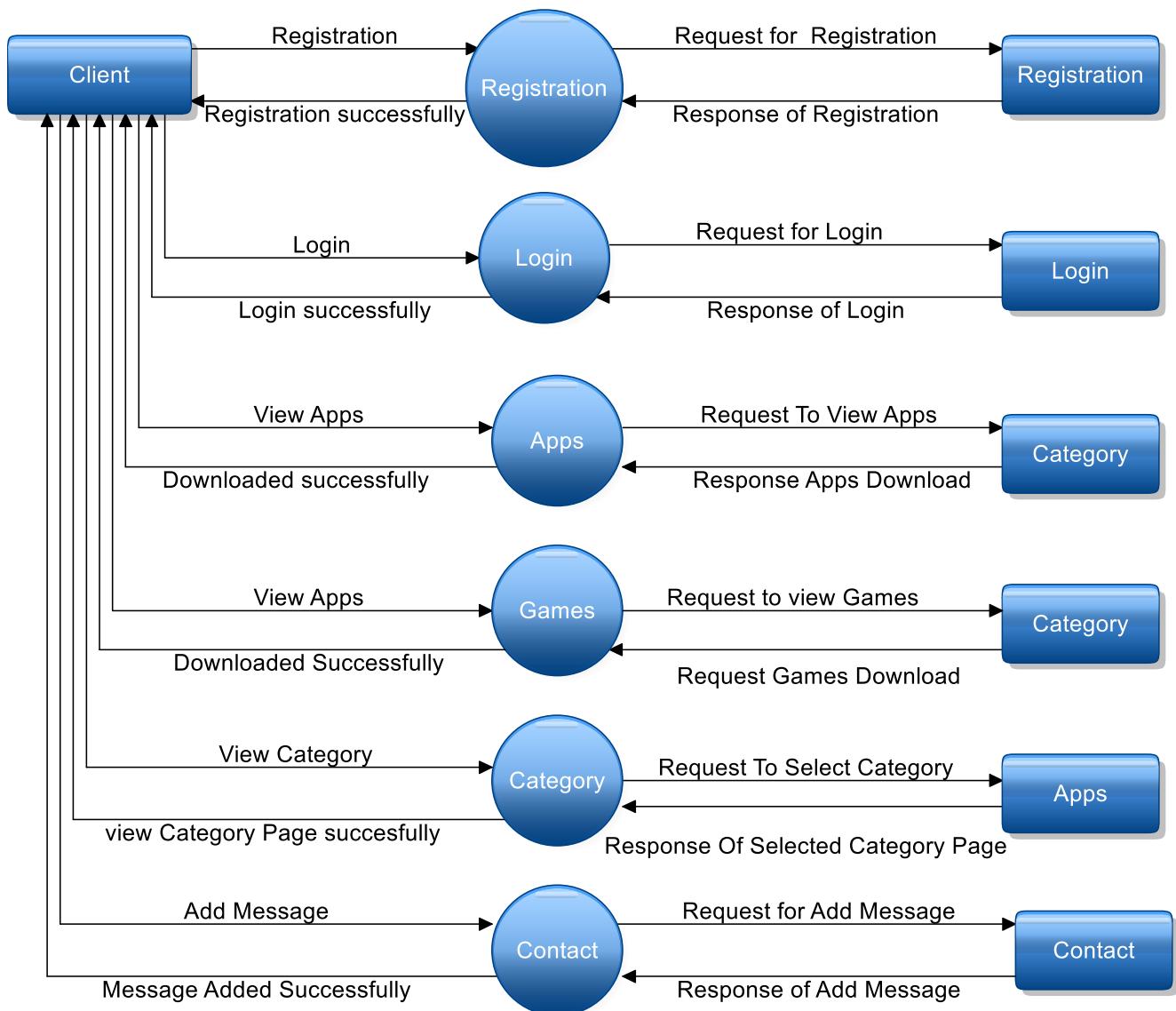
❖ 0 LEVEL DFD



❖ ADMIN level DFD:-



❖ Client level DFD:-



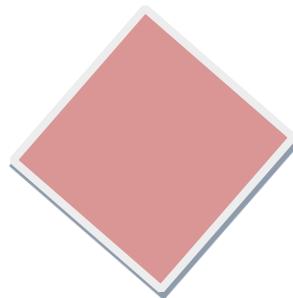
❖ E-R DIAGRAM:-

➤ Entity Relationship diagram

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



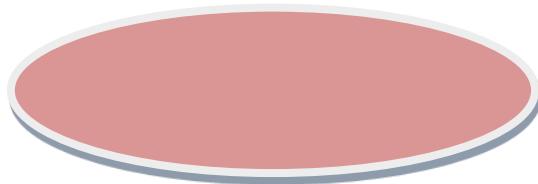
Flow Line



Relationship

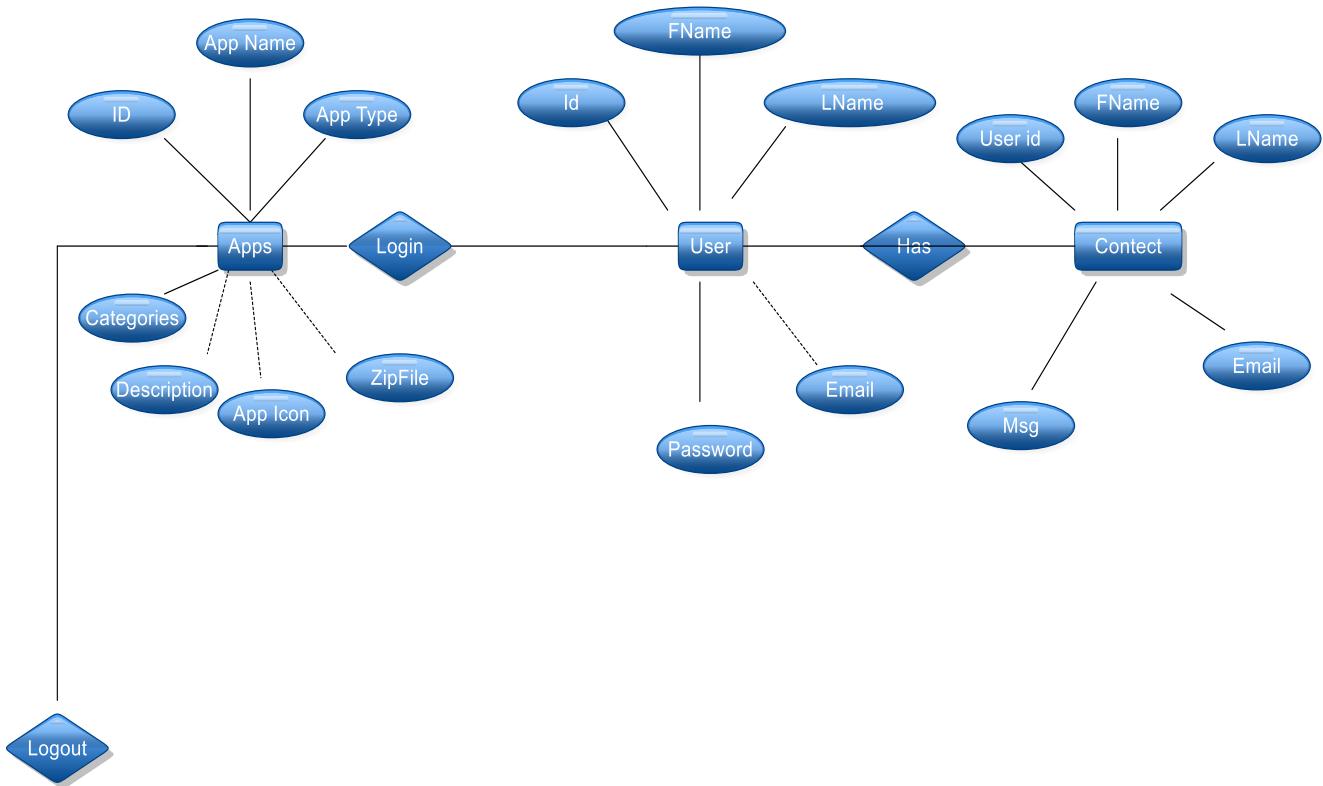


Attribute



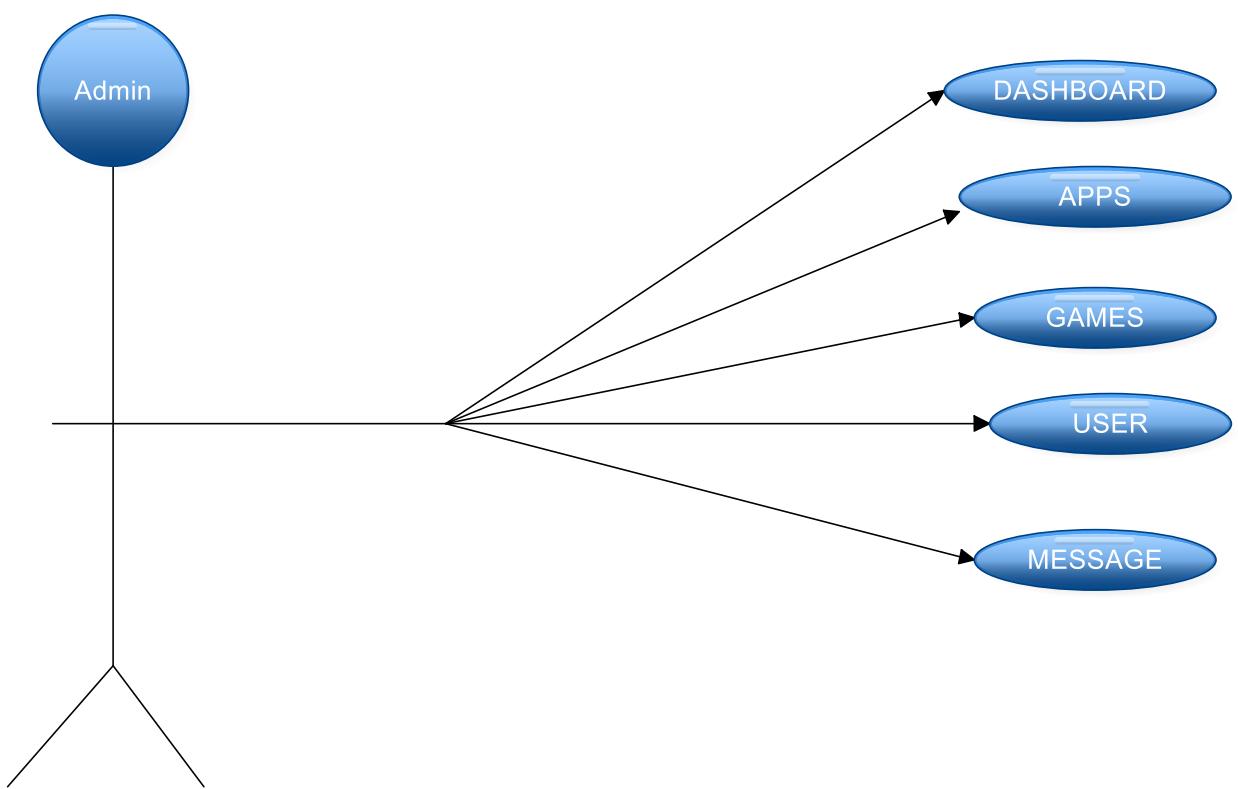
Entity

❖ E-R DIAGRAM:-

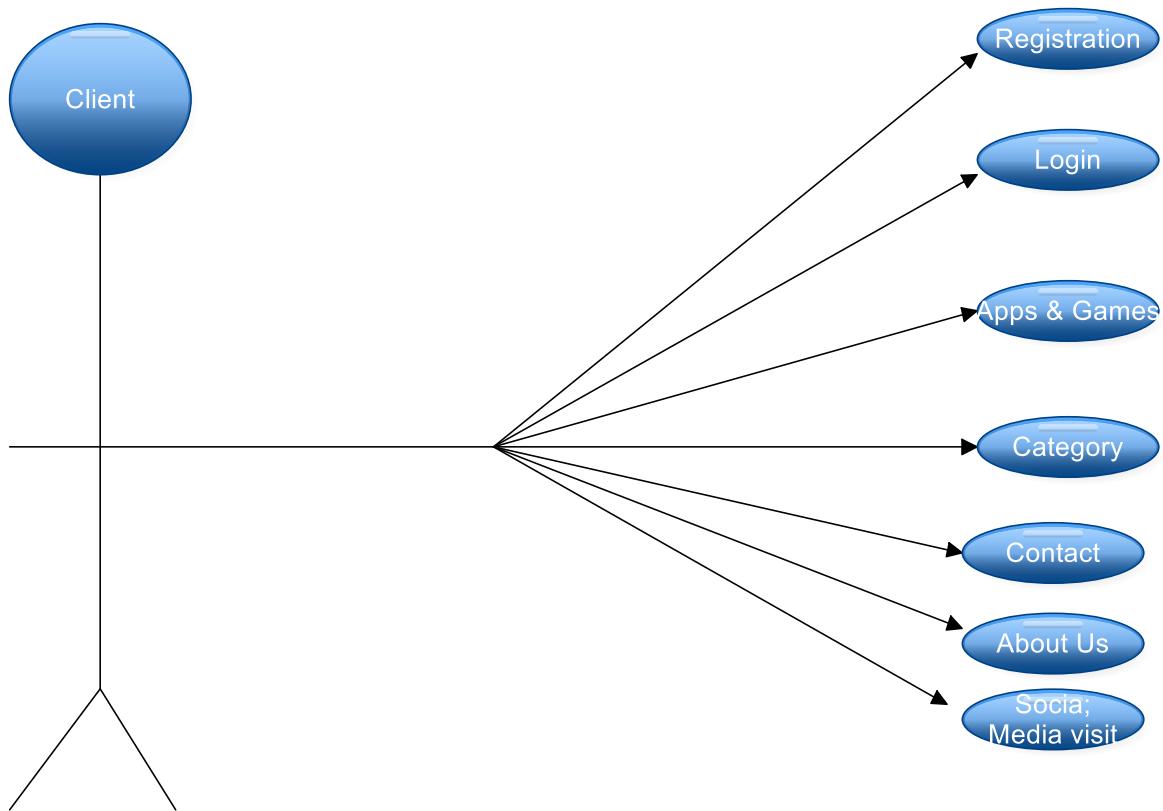


❖ USECASE FOR

➤ USECASE FOR ADMIN:-

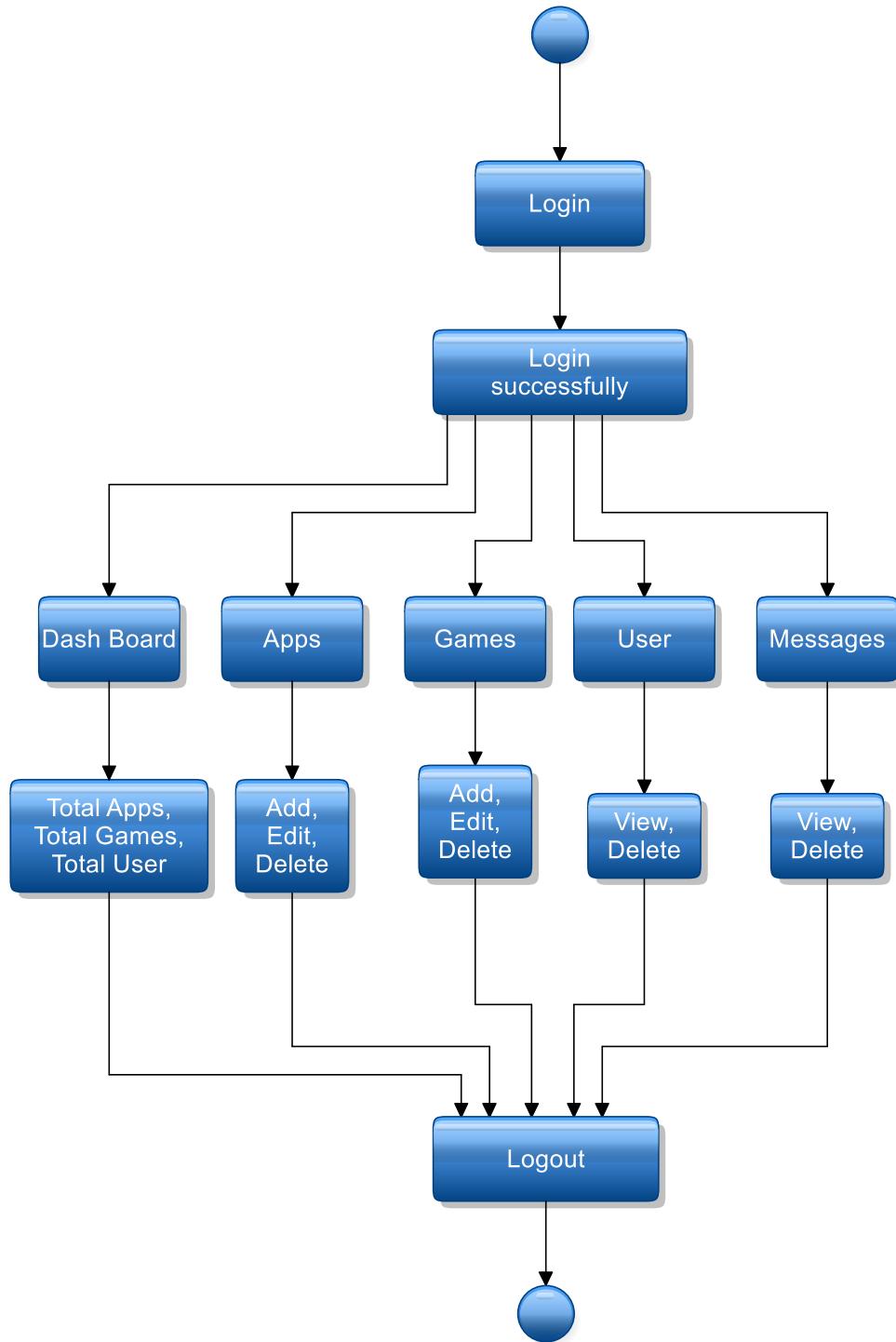


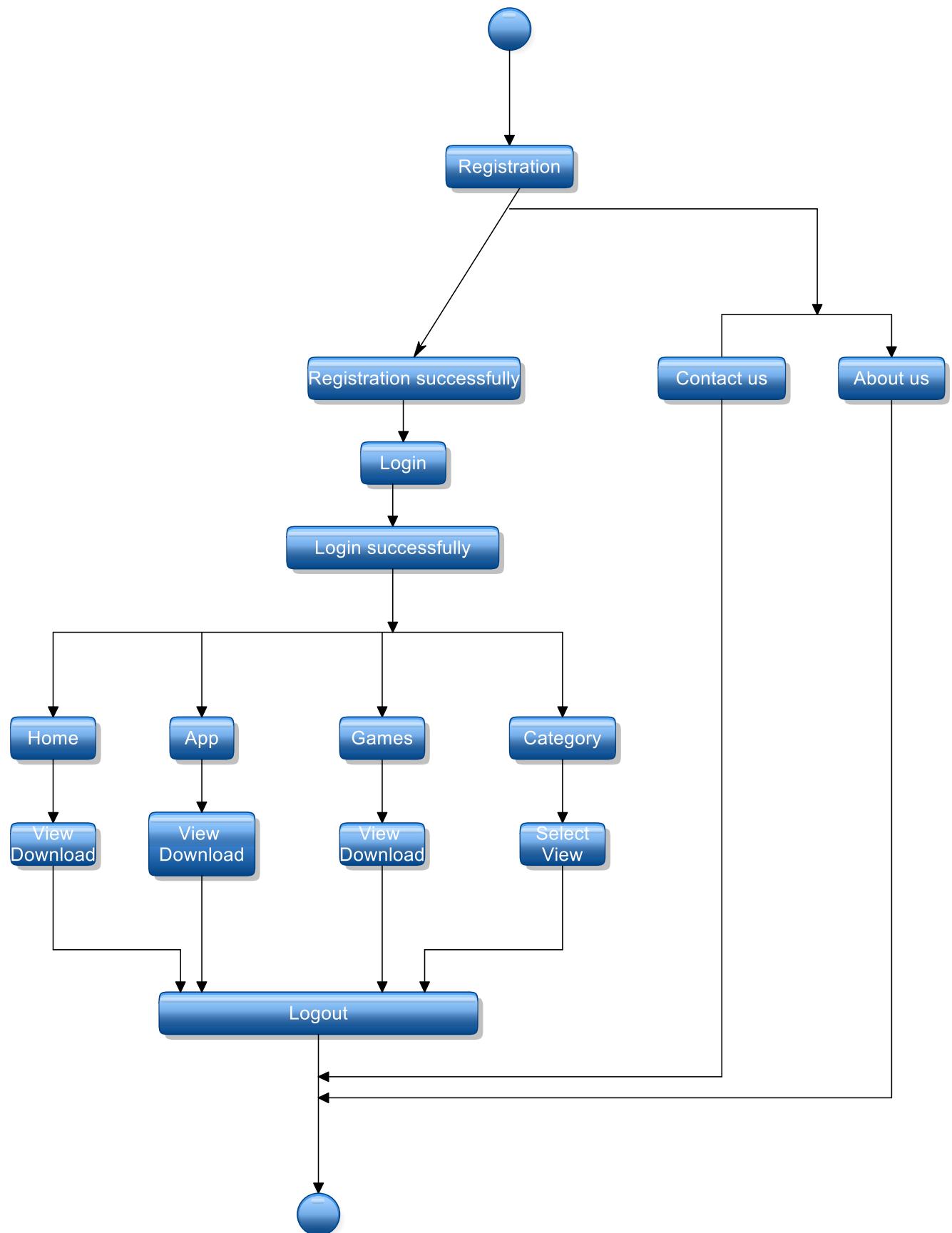
❖ USECASE FOR USER:-



❖ ACTIVITY DIAGRAM:-

➤ ADMIN:-

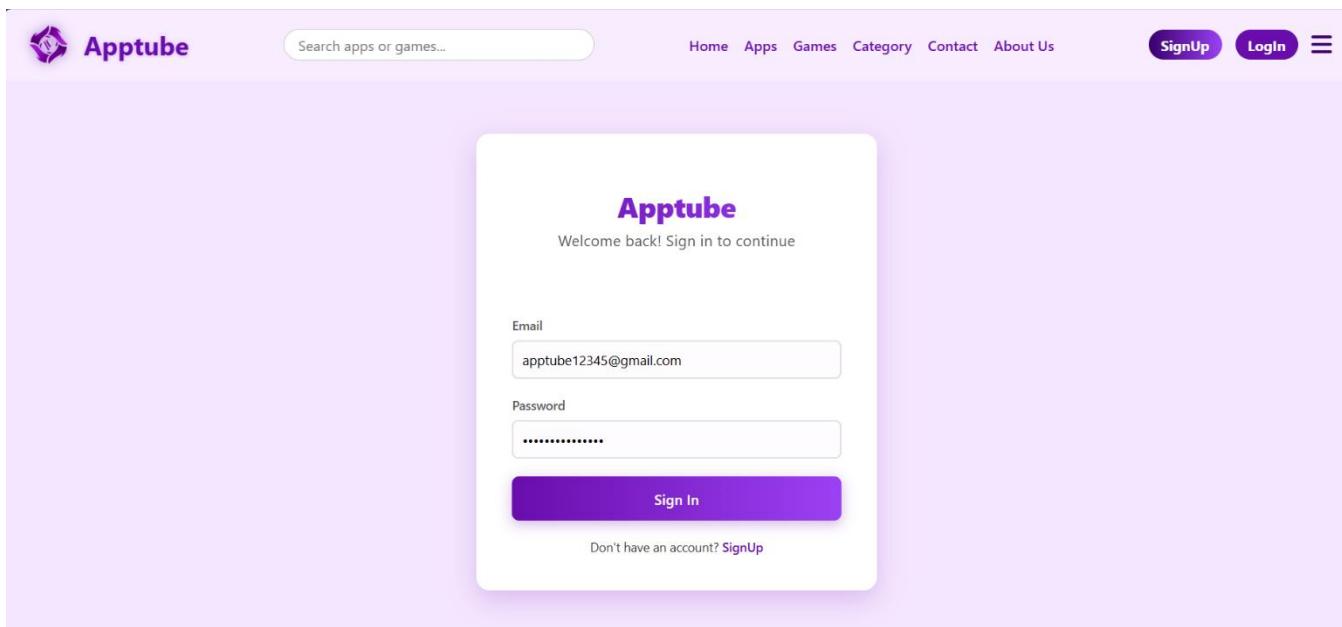


➤ CLIENT :-

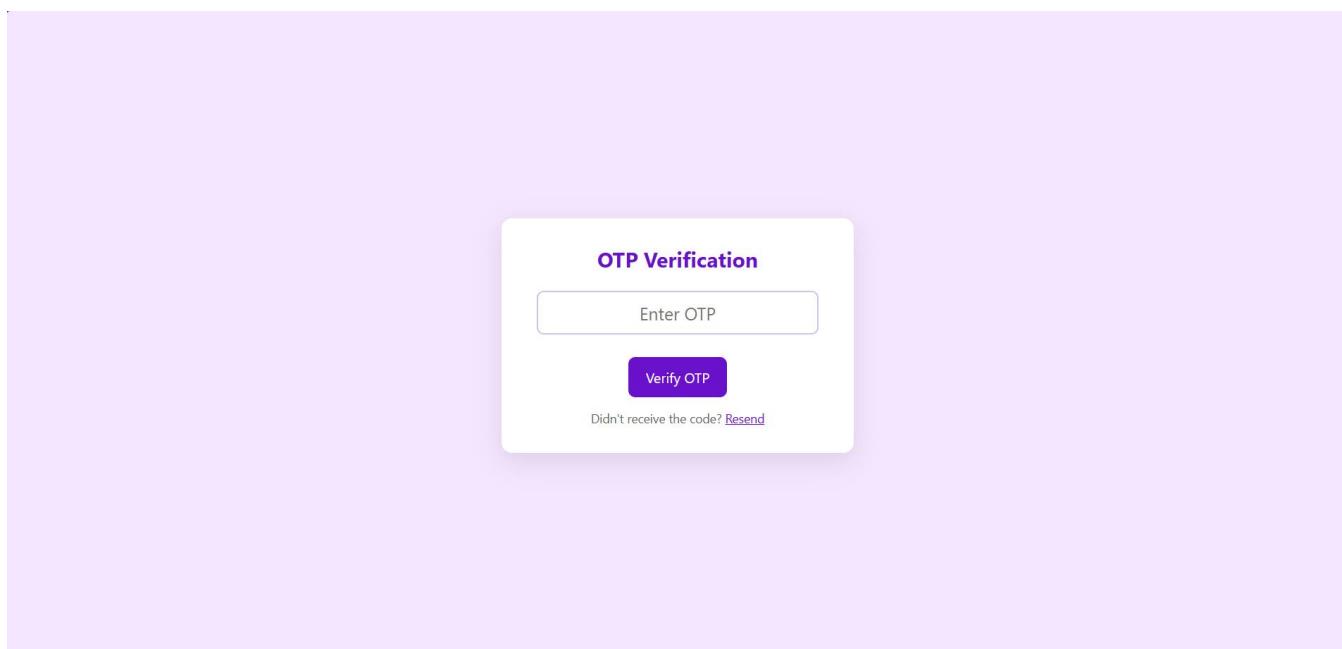
❖ SYSTEM DESIGN

➤ ADMIN SIDE DESIGN

- **ADMIN LOGING PAGE**



- **OTP PAGE**



- DASHBOARD PAGE

Apptube Admin

Dashboard

Total Apps: 9 Total Games: 9 Users: 2

- APPS PAGE

Apptube Admin

Manage Apps

Logo	Name	Category	Files	Actions
	Celestia	education	1757353100539CelestiaPortable_1.6.4.paf.zip	<button>Edit</button> <button>Delete</button>
	TypeFaster	education	1757353201847TypeFasterPortable_0.4.2_Rev_2_English.paf.zip	<button>Edit</button> <button>Delete</button>
	RedNoteBook	education	1757353344637RedNotebookPortable_2.39.paf.zip	<button>Edit</button> <button>Delete</button>
	PDF-XChange Editor	education	1757353414796PDF-XChangeEditorPortable_10.6.0.396.paf.zip	<button>Edit</button> <button>Delete</button>
	Telegram	entertainment	1757353987847tsetup-x64.4.2.0.zip	<button>Edit</button> <button>Delete</button>
	zoom	entertainment	1757354048605ZoomInstallerFull-5.14.10.zip	<button>Edit</button> <button>Delete</button>
	Discord	entertainment	1757354106510DiscordSetup-1.0.9015.zip	<button>Edit</button> <button>Delete</button>
	aTunes - Music Player	entertainment	1757354184539aTunes_3.1.2_installer.zip	<button>Edit</button> <button>Delete</button>

- GAMES PAGE

Apptube Admin				
Manage Games				
+ Add New Game				
Logo	Name	Category	Files	Actions
	Aquascapes	entertainment	1757260609320Aquascapes.zip	Edit Delete
	Desert Hawk	entertainment	1757352997628Desert-Hawk.zip	Edit Delete
	Cradle of Egypt	entertainment	1757354394204Cradle-of-Egypt.zip	Edit Delete
	Around the World in 80 Days	education	1757354462472Around_the_World.zip	Edit Delete
	Lucas Chess	education	1757354539512InsLucasChessR02_20c.zip	Edit Delete
	Mountain Builders	business	1757354629909Monument-Builder-Titanic.zip	Edit Delete
	Moto Racing	entertainment	1757354674278Motoracing.zip	Edit Delete
	Trick Solitaire	entertainment	1757354740315Trick-Solitaire.zip	Edit Delete

- USER PAGE

Apptube Admin				
Manage Users				
First Name Last Name Email				
FirstName	LastName	Email		Actions
JENISH	BHALANI	bhalanijenish188@gmail.com		Delete

• MESSAGE PAGE

Apptube Admin

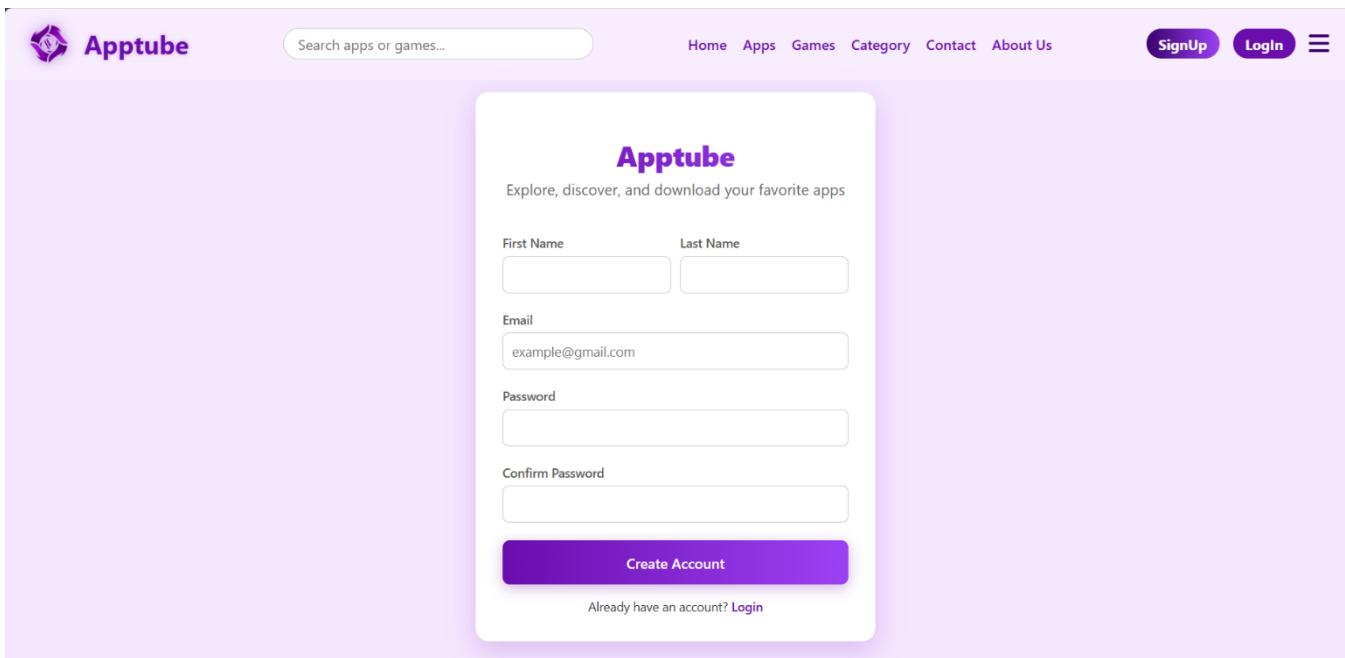
- Dashboard
- Apps
- Games
- Users
- Messages

User Messages

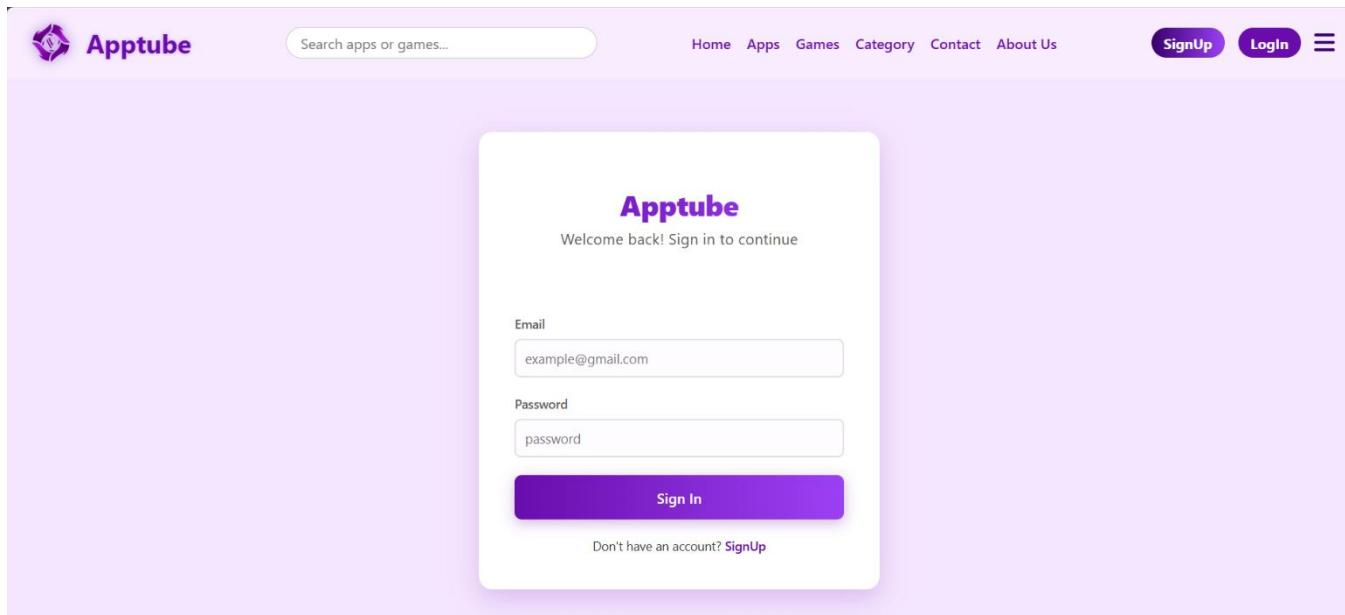
FirstName	LastName	Email	Message	Actions
Vasu	Kinderkhediya	vasukinderkhediya05@gmail.com	this is a example message.	<button>Delete</button>

➤ CLIENT SIDE DESIGN

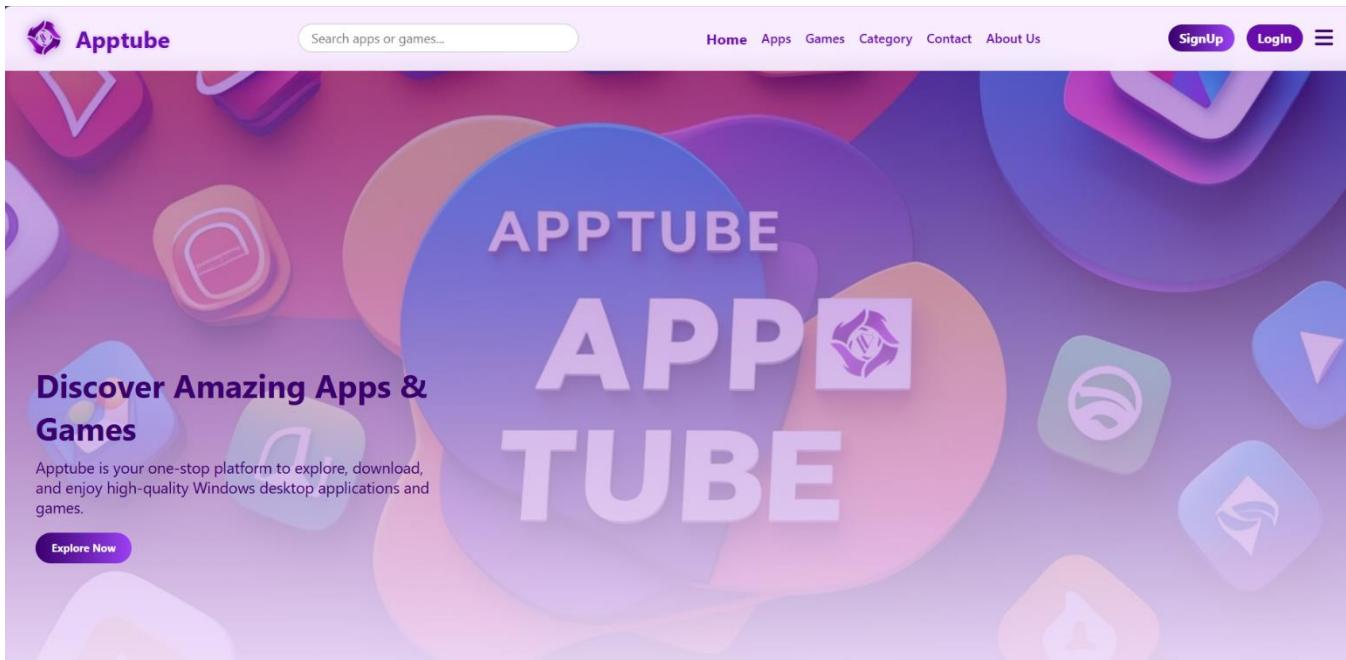
- REGISTRATION PAGE



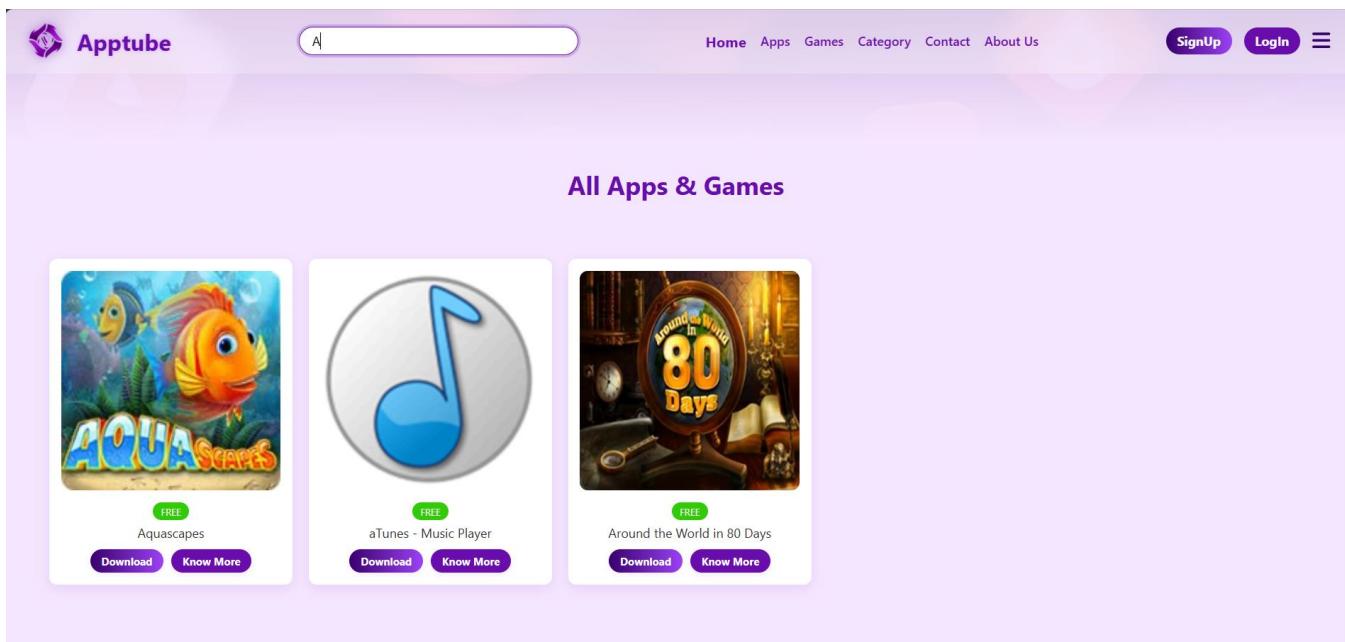
- LOGING PAGE



- HOME PAGE - BANNER



- HOME PAGE – ALL APPS



- HOME PAGE - FOOTER

The screenshot shows the footer area of the Apptube website. At the top, there's a search bar with placeholder text "Search apps or games...". Below it are three promotional cards for free apps: "Moto Racing", "Trick Solitaire", and "Zombie Derby". Each card includes a "FREE" badge, a preview image, and two buttons: "Download" and "Know More". To the right of these cards is a navigation menu with links: Home, Apps, Games, Category, Contact, About Us, SignUp, Login, and a three-line menu icon.

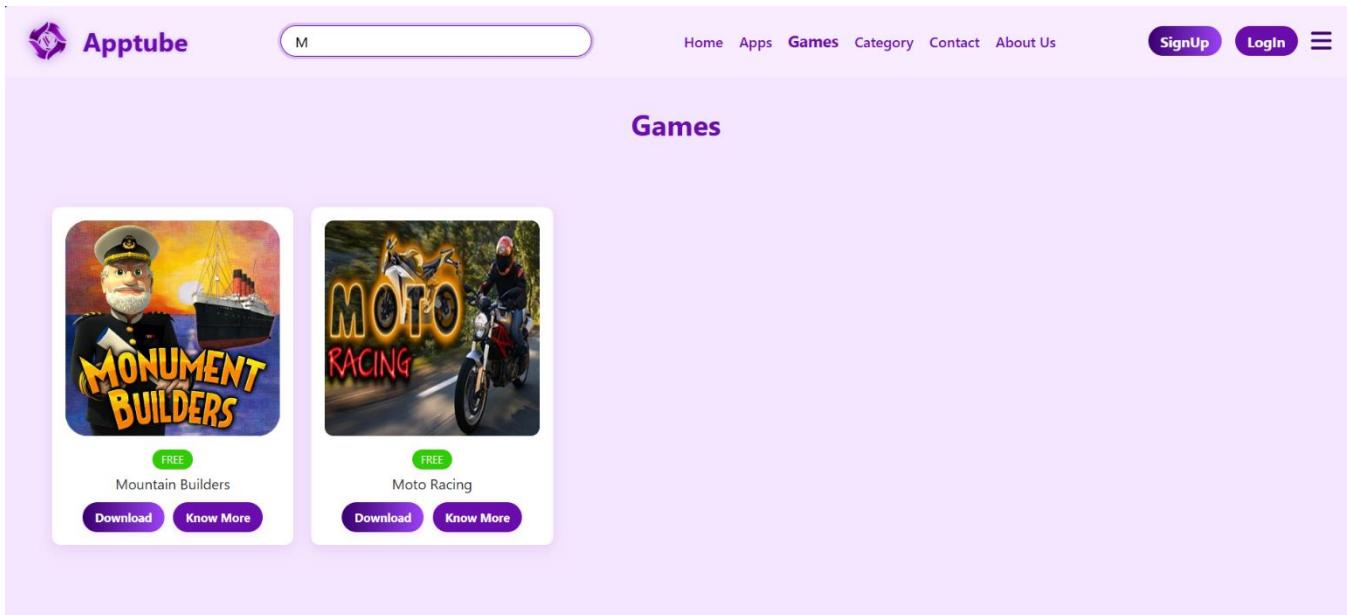
Apptube	Apps	Games	Features	Support
Discover, download, and enjoy the best Windows apps & games with Apptube's sleek design and lightning-fast experience.	Top Free Apps Free Download Different Categories	Top Free Games Free Download Many Types of Games	App Search & Discovery App Categories & Filters User-Friendly Interface Secure Download Links Developer Profiles	Help Center Privacy Policy Terms of Service

© 2025 Apptube. All rights reserved.

- APPS PAGE

The screenshot shows the "Apps" section of the Apptube website. At the top, there's a search bar with placeholder text "Search apps or games...". Below it are two promotional cards for free apps: "TypeFaster" and "Telegram". Each card includes a "FREE" badge, a preview image, and two buttons: "Download" and "Know More". To the right of these cards is a navigation menu with links: Home, Apps, Games, Category, Contact, About Us, SignUp, Login, and a three-line menu icon.

- GAMES PAGE



- CATEGORIES PAGE

Apptube	Apps	Games	Features	Support
Discover, download, and enjoy the best Windows apps & games with Apptube's sleek design and lightning-fast experience.	Top Free Apps Free Download Different Categories	Top Free Games Free Download Many Types of Games	App Search & Discovery App Categories & Filters User-Friendly Interface Secure Download Links Developer Profiles	Help Center Privacy Policy Terms of Service

- CONTACT PAGE

Contact us

Need to get in touch with us? Either fill out the form with your inquiry or Contact Us on this email apptubeofficial05@gmail.com.

First Name

Last Name

Email

What can we help you with?

Submit

- ABOUT US PAGE

About Apptube

Apptube is a modern app store platform designed to connect users with innovative applications across categories. Our goal is to provide a seamless and stylish experience for discovering, exploring, and downloading apps.

Our Vision

We aim to be the most intuitive and visually appealing app marketplace that supports both users and developers. From top-rated tools to hidden gems, Apptube makes app discovery smarter and more personalized.

Website Information

Name: Apptube
Category: App Store
Main Features: App discovery, download Apps and Games, clean UI, user-friendly interface, contact support
Purpose: To provide a stylish and simplified platform for finding and downloading Apps & Games
Target Users: Tech-proficient users, students, and app enthusiasts

- **ABOUT US PAGE - DEVELOPERS**

Website Information

Name: Apptube
Category: App Store
Main Features: App discovery, download Apps and Games, clean UI, user-friendly interface, contact support
Purpose: To provide a stylish and simplified platform for finding and downloading Apps & Games
Target Users: Tech-proficient users, students, and app enthusiasts

Meet the Developers

Jenish Bhalani Frontend Developer & Workflow Manager	Vasu Kindarkhediya Backend Developer	Ankit Mandaviya Database Manager	Bhaumik Parmar UI/UX Designer	Dev Parmar App Tester & Storage Organizer

- **KNOW MORE PAGE**

RedNoteBook

Description

RedNotebook is a modern journal. It includes a calendar navigation, customizable templates, export functionality and word clouds. You can also format, tag and search your entries. Features: •Tagging •Format your text bold, italic or underlined •Insert Images, files and links to websites •Links and mail addresses are recognized automatically •Live-Search •Automatic saving •Backup to zip archive •Word Clouds with most often used words and tags •Templates •Export the journal to PDF, HTML, Latex or plain text •The data is stored in plain text files, no database is needed •Translated into more than 20 languages

System Requirements: Windows 10+
App License: open source (GPL)

Apptube	Apps	Games	Features	Support
Discover, download, and enjoy the best Windows apps & games with Apptube's sleek design and fast experience.	Top Free Apps Free Download Different Categories	Top Free Games Free Download Many Types of Games	App Search & Discovery App Categories & Filters User-Friendly Interface Secure Download Links Developer Profiles	Help Center Privacy Policy Terms of Service

➤ ADMIN SIDE VALIDATION

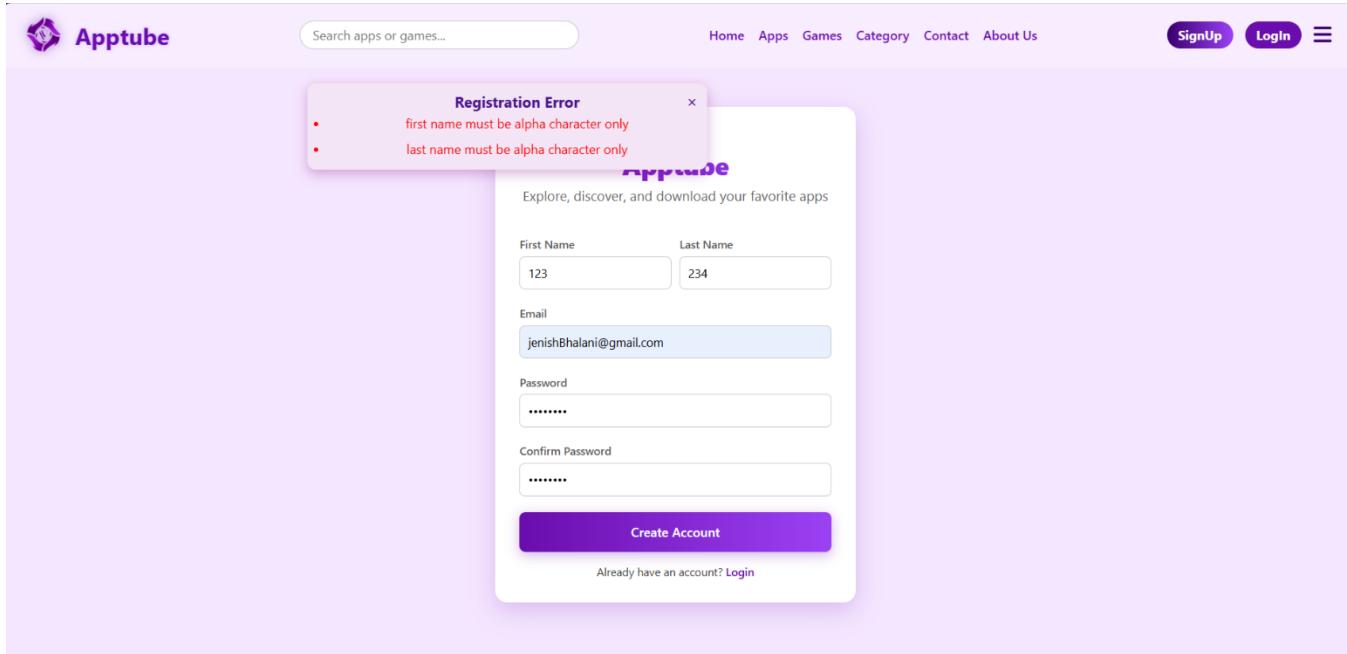
• ADD APPS & GAMES VALIDATION

The screenshot shows the Apptube Admin interface. On the left, there's a sidebar with 'Apptube Admin' at the top, followed by 'Dashboard', 'Apps' (which is highlighted in purple), 'Games', 'Users', and 'Messages'. The main area has a title 'Add / Edit App' with a sub-section 'example'. It includes fields for 'Upload App Log' (with a 'Choose File' button) and 'Upload App File' (also with a 'Choose File' button). A pink error box is overlaid on these fields, containing the text: 'Registration Error', 'please select valid categories', 'description must be required', 'app icon must be required', and 'please upload the zip file'. Below these fields are 'Save' and 'Cancel' buttons. To the right of the form is a table titled 'Actions' listing several uploaded files:

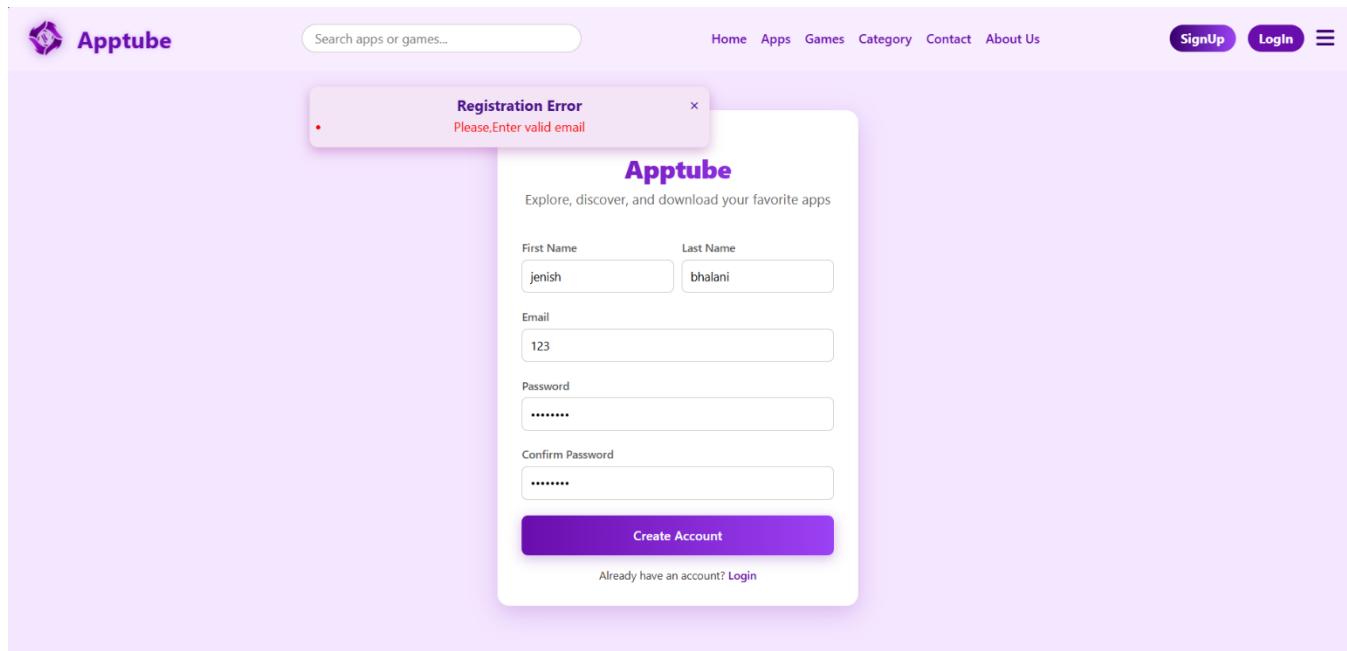
			Actions	
	aPortable_1.6.4.paf.zip		Edit Delete	
	TypeFasterPortable_0.4.2.Rev_2_English.paf.zip		Edit Delete	
	RedNotebookPortable_2.39.paf.zip		Edit Delete	
	PDF-XChangeEditorPortable_10.6.0.396.paf.zip		Edit Delete	
	setup-x64.4.2.0.zip		Edit Delete	
	ZoomInstallerFull-5.14.10.zip		Edit Delete	
	Discord	entertainment	1757354106510DiscordSetup-1.0.9015.zip	Edit Delete
	aTunes - Music Player	entertainment	1757354184539aTunes_3.1.2_installer.zip	Edit Delete

➤ CLIENT SIDE VALIDATION

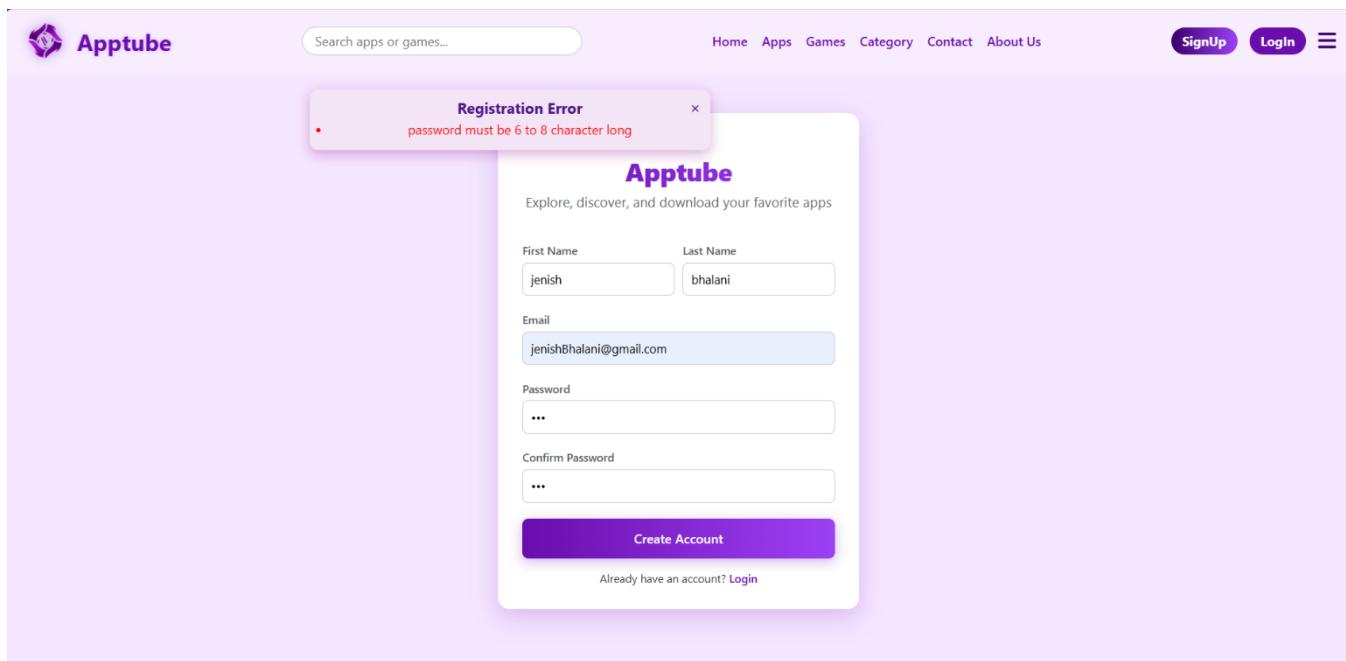
• USER NAME VALIDATION



• 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	Actual 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		