Software Requirements Specification

for

Reality Show Management

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1. Aim

1.1 What is the aim of this project?

1.To assign appropriate shows to participants according to their experience.

2.Any actor appealing to the audience can be voted by the audience to continue participating in a particular show.

3.Any actor with prior experience can be voted by the audience to participate in a particular show.

4.To completely digitalise the traditional concept of management and hereby involving the general public in an easy manner.

2. Objectives

2.1 What are its objectives?

The objective of this project are to :

• Complete the project by the project due date.

• Complete the project within budget

• Fulfill all stated requirements, as in the Software Requirement

• To generate quick reports regarding the state of the project.

• To make accuracy and efficient calculations.

• To provide proper information briefly

• To provide optimum data security

• To provide huge maintenance of records.

3.   Project Scope

3.1   Intro to Project Scope

It is a web portal for registering in reality shows.The web page will contain a sign up page in which once a particular person signs up and logs in, 5 reality shows will be shown and each will have their description given and a participant limit. Every show will have an experience requirement. Every participant will also have a participant id and the no. of votes assigned to them. The system will be based on a first come first serve basis for participation. The participation link can be sent from the respective management team also (us) to certain people with fame or experience.

3.2   Modules

The project scope of our project will be explained via the following modules:

1)Authentication module:(log in / sign up)

When the web page or portal will be accessed by someone who wants to participate,he or she needs to sign up. The details asked while signing up will be Name,email Id, prior experience in show business(if any) and the show in which they want to participate. The necessary format conditions will be followed such as the email Id should contain the " @ " function and there should be no use of numbers while filling your name.

2)Voter module:

For the people who wish for their participants to qualify furthur in the show, there there will be a section in the home page where non participants can vote without going through the process of signing in. This module will contain the description of all shows for voters and the participants participating in the respective shows.

3)Participant module:

In this module, after signing up and participating for their preferred show, they will receive a participant id, venue and other audition details. Every show may or may not have experience requirements. The people who are selected will only receive a participant id, venue and audition details. People who are not selected will receive a rejection mail.

4)Administration for voting module:

This module will keep track of all the votes given by the non participants or the audience. It will also make sure that one person is only eligible to give one vote in a show that is that person cannot give vote to more than one person in that particular show. Elimination of contestants with least votes will be done and it will be updated by the admin after each elimination.

5)Administration for participation module:

This module will ensure that a participant cannot participate in more than one show as it is physically impossible to do so. Every show will have a participation limit and if the limit is reached, any further participation will not be allowed for that show. It will be on a first come first serve basis.

4. Software/Process Model

4.1 Introduction

Software Model is an abstract representation of the process. Each phase in the software model consists of various activities to develop software products gradually. It also specifies the order in which each phase must be executed.

For our project, the waterfall model will be a very suitable model because requirements are very clear, well known and fixed.

4.2 Waterfall Model

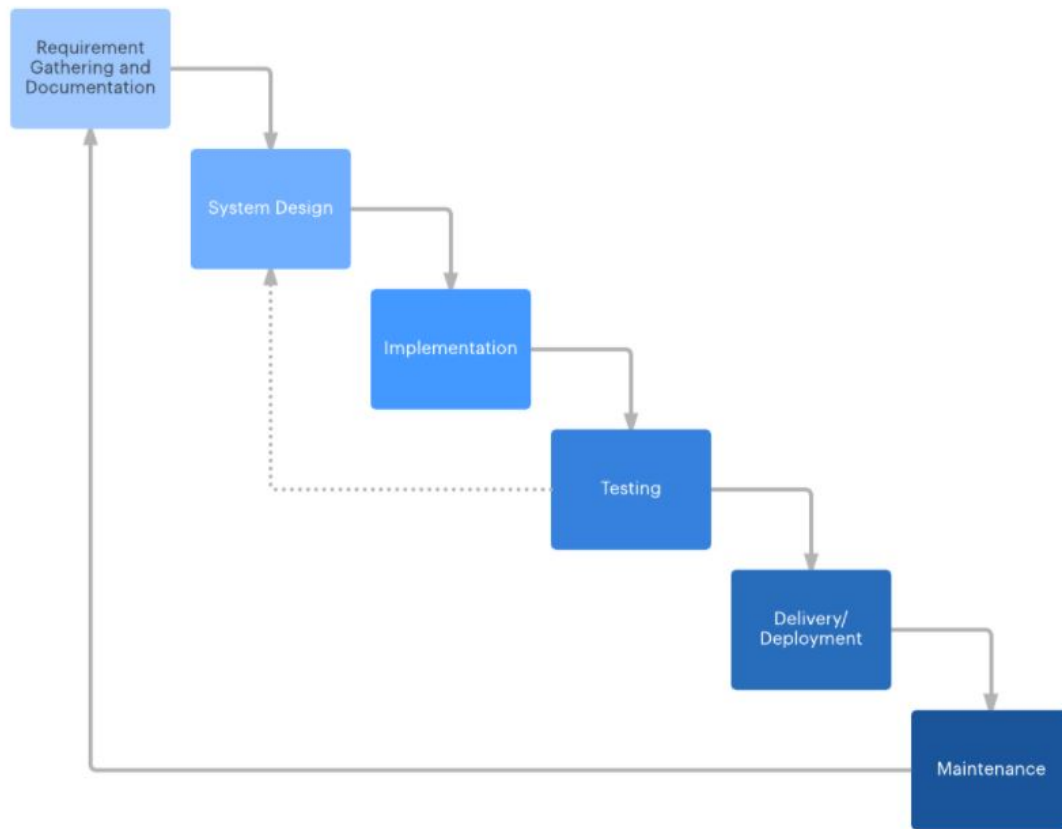It requires a well understanding and knowledge of requirements and technology related to it.

Advantages :

It is very easy and convenient to implement the waterfall model.

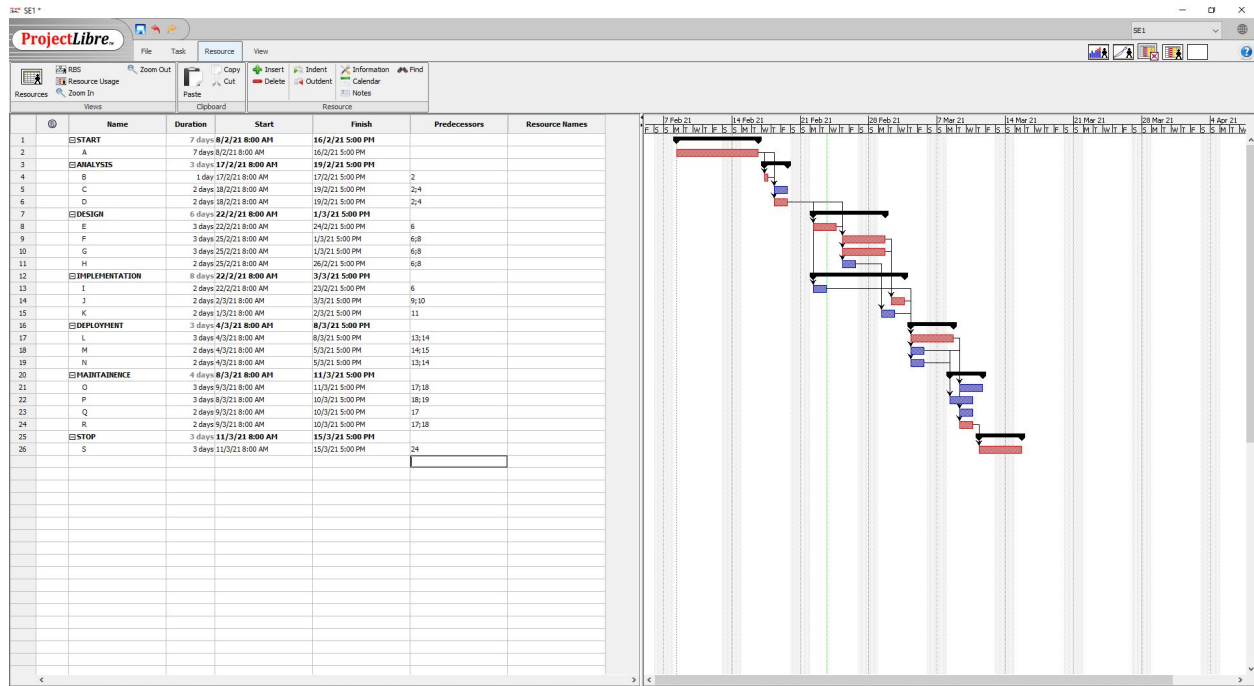For implementation of small systems, it is very useful

4.3 Model:

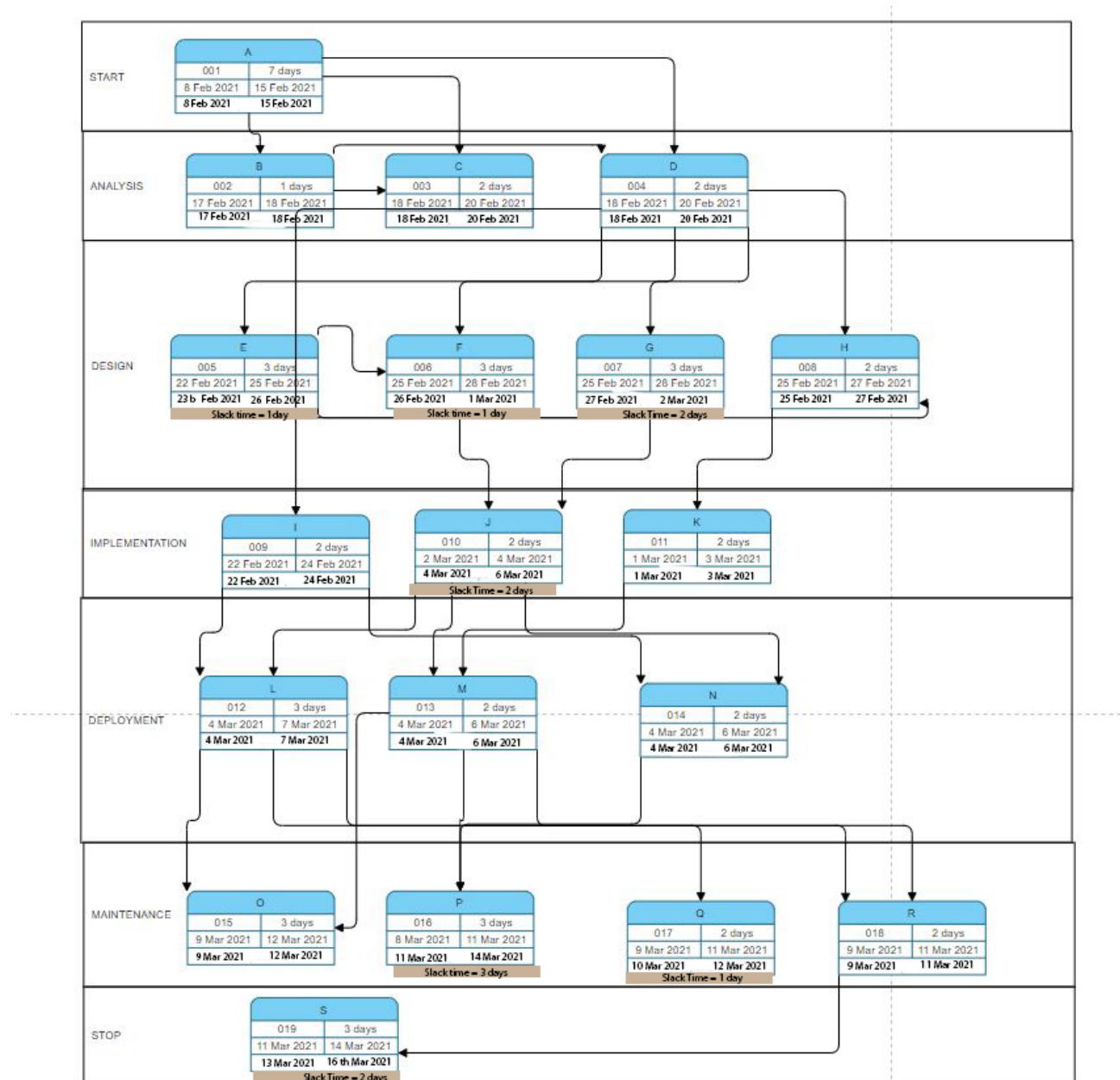Requirement Gathering and Documentation → System Design → Implementation → Testing → Delivery/Deployment → Maintenance

5. Process Scheduling

5.1 Activity description table

Activity	Description	Immediate Predecessors	Estimated time(days)
A	FINALIZING THE IDEA		7
B	SOFTWARE REQUIREMENTS	A	1
C	USER FRIENDLY	A,B	2
D	ACCESSIBILITY	A, B	2
E	LOGIN PAGE DESIGN	D	3
F	PARTICIPATION PAGE DESIGN	D, E	3
G	VOTER SECTION DESIGN	D, E	3
H	SHOW DESCRIPTION DESIGN	D, E	2
I	EASY LOGIN AND SIGN IN PORTAL	D	2
J	EASY PARTICIPATION AND VOTING	F,G	2
K	EASY SHOW DESCRIPTION VIEW FOR PARTICIPANTS AND VOTERS	H	2
L	SELECTION OF PARTICIPANTS	I,J	3
M	FIXED NO. OF PARTICIPANTS PER SHOW	J,K	2
N	FIXING PARTICIPATION LIMIT FOR EACH SHOW	I,J	2
O	KEEPING TRACK OF VOTES	L,M	3
P	RULES FOR VOTING AND PARTICIPATION LIMIT TO BE FOLLOWED	M,N	3
Q	REFRESHING OF VOTES AFTER EVERY ELIMINATION	L	2
R	NO PARTICIPATION IN MORE THAN ONE SHOW	L,M	2
S	FINISH	R	3

5.1 Gantt Chart

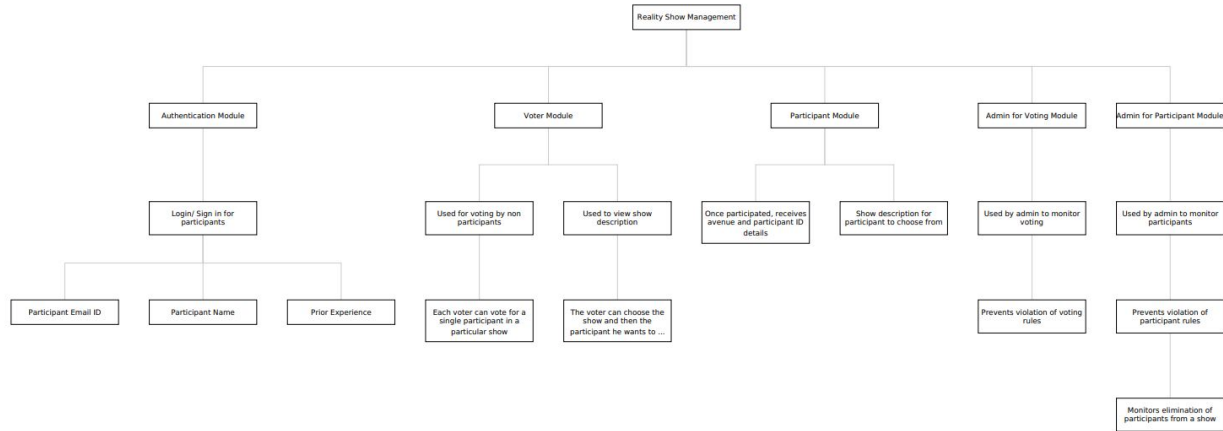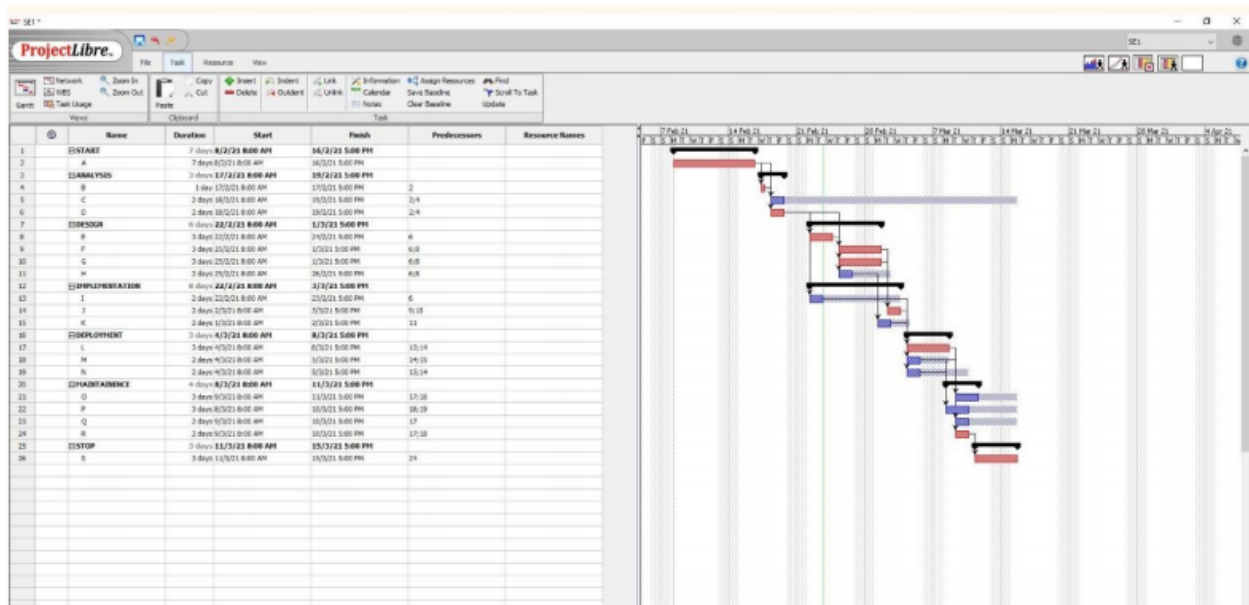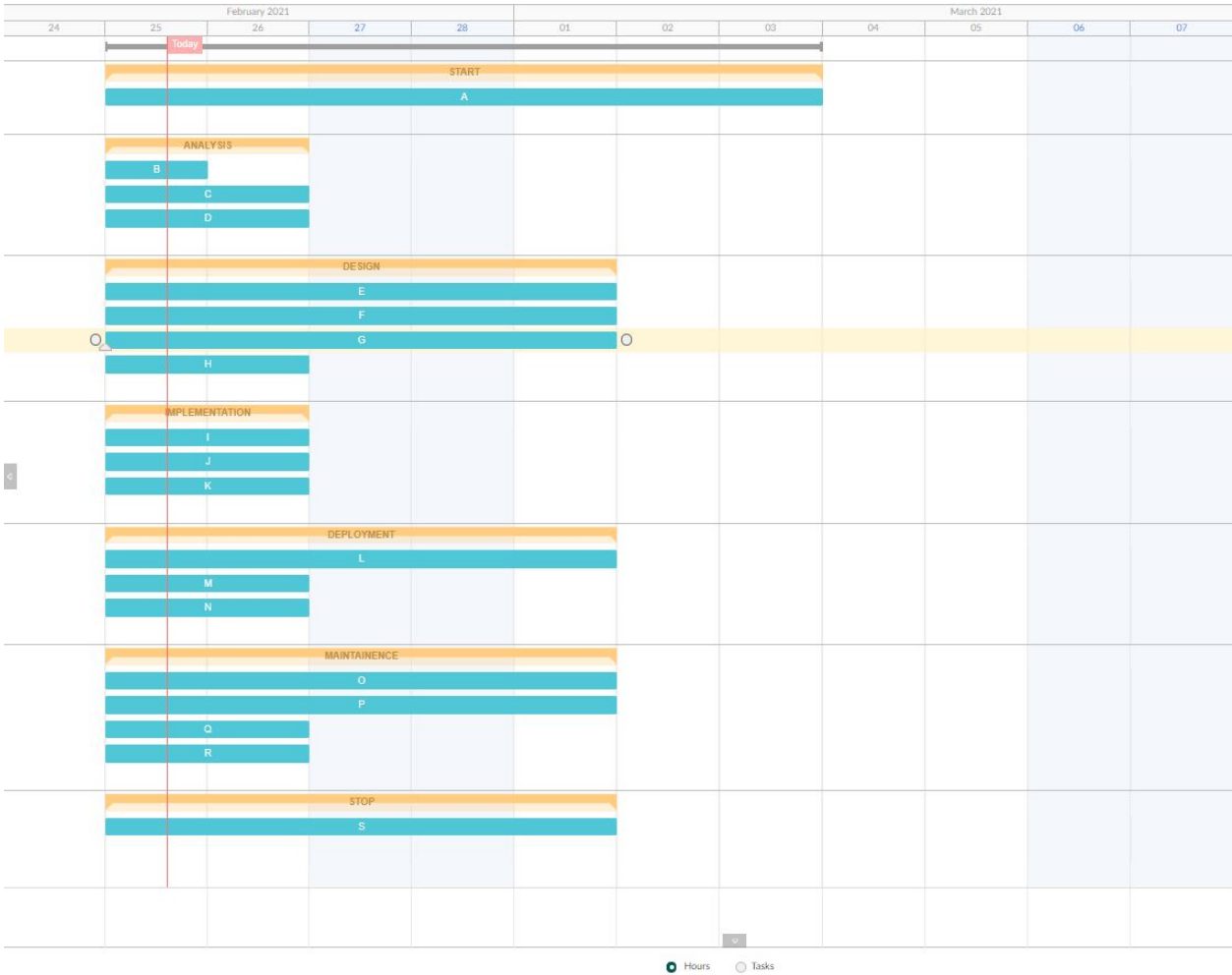|		Name	Duration	Start	Finish	Predecessors	Resource Names
1		⊟START	7 days	8/2/21 8:00 AM	16/2/21 5:00 PM		
2		A	7 days	8/2/21 8:00 AM	16/2/21 5:00 PM		
3		⊟ANALYSIS	3 days	17/2/21 8:00 AM	19/2/21 5:00 PM		
4		B	1 day	17/2/21 8:00 AM	17/2/21 5:00 PM	2	
5		C	2 days	18/2/21 8:00 AM	19/2/21 5:00 PM	2;4	
6		D	2 days	18/2/21 8:00 AM	19/2/21 5:00 PM	2;4	
7		⊟DESIGN	6 days	22/2/21 8:00 AM	1/3/21 5:00 PM		
8		E	3 days	22/2/21 8:00 AM	24/2/21 5:00 PM	6	
9		F	3 days	25/2/21 8:00 AM	1/3/21 5:00 PM	6;8	
10		G	3 days	25/2/21 8:00 AM	1/3/21 5:00 PM	6;8	
11		H	2 days	25/2/21 8:00 AM	26/2/21 5:00 PM	6;8	
12		⊟IMPLEMENTATION	8 days	22/2/21 8:00 AM	3/3/21 5:00 PM		
13		I	2 days	22/2/21 8:00 AM	23/2/21 5:00 PM	6	
14		J	2 days	2/3/21 8:00 AM	3/3/21 5:00 PM	9;10	
15		K	2 days	1/3/21 8:00 AM	2/3/21 5:00 PM	11	
16		⊟DEPLOYMENT	3 days	4/3/21 8:00 AM	8/3/21 5:00 PM		
17		L	3 days	4/3/21 8:00 AM	8/3/21 5:00 PM	13;14	
18		M	2 days	4/3/21 8:00 AM	5/3/21 5:00 PM	14;15	
19		N	2 days	4/3/21 8:00 AM	5/3/21 5:00 PM	13;14	
20		⊟MAINTAINENCE	4 days	8/3/21 8:00 AM	11/3/21 5:00 PM		
21		O	3 days	9/3/21 8:00 AM	11/3/21 5:00 PM	17;18	
22		P	3 days	8/3/21 8:00 AM	10/3/21 5:00 PM	18;19	
23		Q	2 days	9/3/21 8:00 AM	10/3/21 5:00 PM	17	
24		R	2 days	9/3/21 8:00 AM	10/3/21 5:00 PM	17;18	
25		⊟STOP	3 days	11/3/21 8:00 AM	15/3/21 5:00 PM		
26		S	3 days	11/3/21 8:00 AM	15/3/21 5:00 PM	24	

5.2 PERT Chart

5.3 Work Breakdown Structure

5.4 Gantt with Slack Time

5.4 Timeline

6.   Stakeholders Identification

1)Project Manager

2)Project Team

3)Participants

4)Voter or Judges

5)Host

6)Production companies or sponsors

7)Supporting Staff

8)Guests

6.1 Internal

1)Project Manager

2)Project Team

3)Participants

4)Host

5)Guests

1)Project Manager

He is responsible for managing the project as he is not involved in producing the final product but he/she controls,monitors and manages the activities prevailing in the project development.

2)Project Team

These are the stakeholders who are responsible for doing the actual work in the development of the project.

3)Participants,Host,Guest

These are the people who are directly involved in the show and

Basically these are called as <u>Actors on the scene</u>.

6.2 External

1)Voter or Judges

2)Production companies or sponsors

3)Supporting Staff (light mans,camera mans,makeup artists,dance team)

1)Voter or Judges

These are the people who are not directly involved in the project but their presence makes the project go further.

2)Supporting Staff

These are the people basically called as Actors behind the scene like for instance light man,camera man,makeup artist,dance team etc..

3)Production companies or sponsors

These provide funds and resources for the successful completion of the project.

7. Use Case Diagram
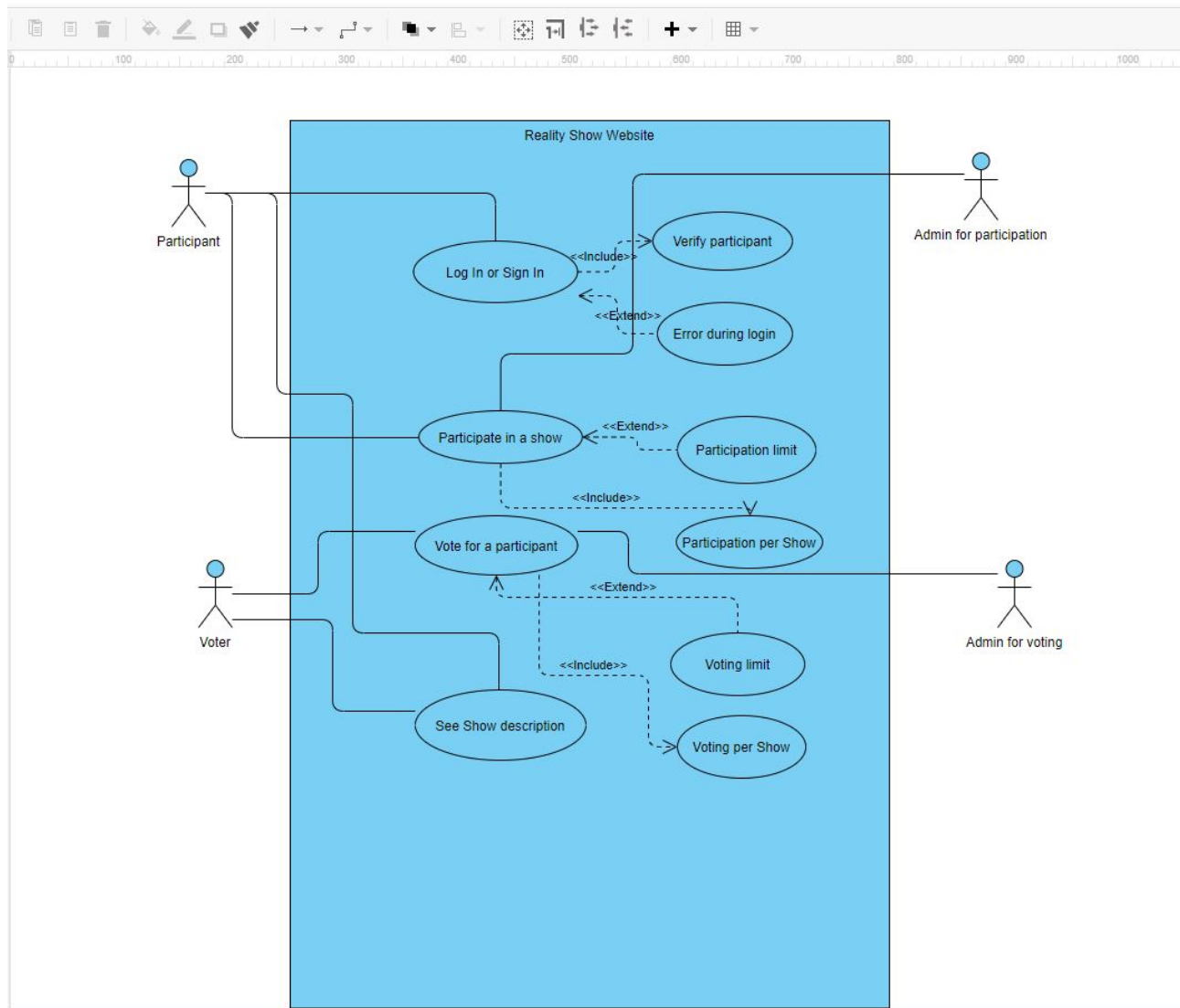
8.   Software Requirements

8.1 Functional Requirements:

- Participant must register themselves on the portal. Unregistered participants can't register for a show and only vote using the portal.

- A verification mail will be sent to the email-id of the participant.

- To login, a user must enter valid user id (email id) and password.

- Portal will provide information about the shows to register, the current no. of participants and the overall background and objective of the show.

- The voters don't have to go through the login or registration process, they are using the portal for voting for the participants.

- There will be a maximum limit to votes for each participant and maximum participants for each show.

- Both voter and the participant will have access to the show description of all the shows available.

- The voter can then choose which participant they want to support with their votes and the participant can choose the show they want to participate in.

- A database of all the votes for a particular participant will be maintained throughout the show and will be used to eliminate participants with the lowest show after every week.

- The admin for voting will keep track of votes of all the participants and will be responsible for elimination. He will also check that one voter cannot vote for more than one participant of the same show.

- The admin of participants will make sure that the registered participant gets the Id, venue and all the show related details. He will also ensure that the same participant doesn't register for more than one show.

Authentication Module:

This module is used for signing up for participation. The people who want to participate in shows would have to go through the process of signing up. Before signing up they could go through the show descriptions for the shows provided and can then register for the show.

Voter Module:

This module is used for non-participants to vote for the participants they want to support. The non-participants also have access to the show description and the participants participating in that show. They may then choose the participant they want to support and hereby keeping them safe from elimination.

Participant Module:

This module makes sure that the participants who are participating in given shows have their details such as the venue, participant ID and date of audition. It will be received by the participant on their Email ID which will be provided by them during sign up. As the participant ID is unique for every participant, it will make sure that someone cannot pose as a participant.

Admin for voting module:

This module is where the admin monitors the votes given by the non-participants. The admin makes sure that a voter can only vote for one participant in a particular show. The admin also ensures that the elimination of participants is done on the basis of votes.

Admin for participants module:

This module is where the admin monitors the participants in very show. There will be a participation limit in each show and the criteria will be first come first serve basis. This module will also take care of updating that takes place after every elimination that is the no. of participants left in that show.

8.2 Non-Functional Requirements:

- **Scalability:** The portal should be able to handle certain no. of participants simultaneously.

- **Performance:** Performance of the portal must be fast and accurate. Portal shall handle expected and unexpected errors.

- **Security:** A verification mail will be sent to the participant during registration. It will also include the venue, the participant ID etc.
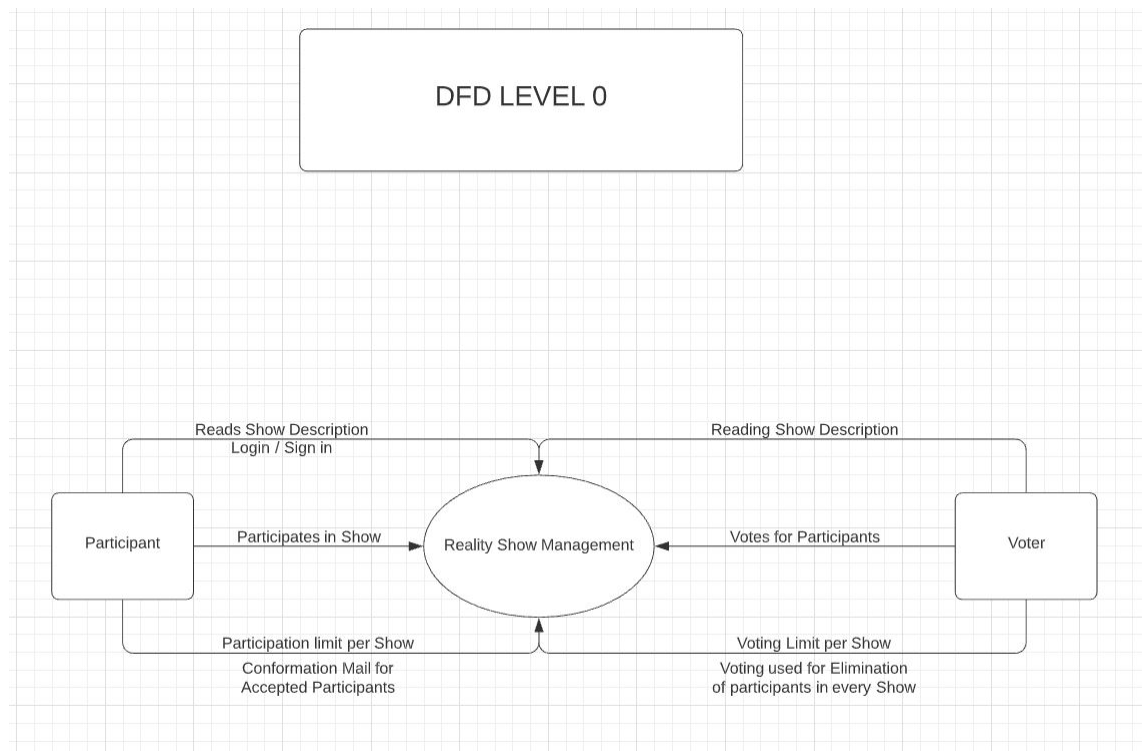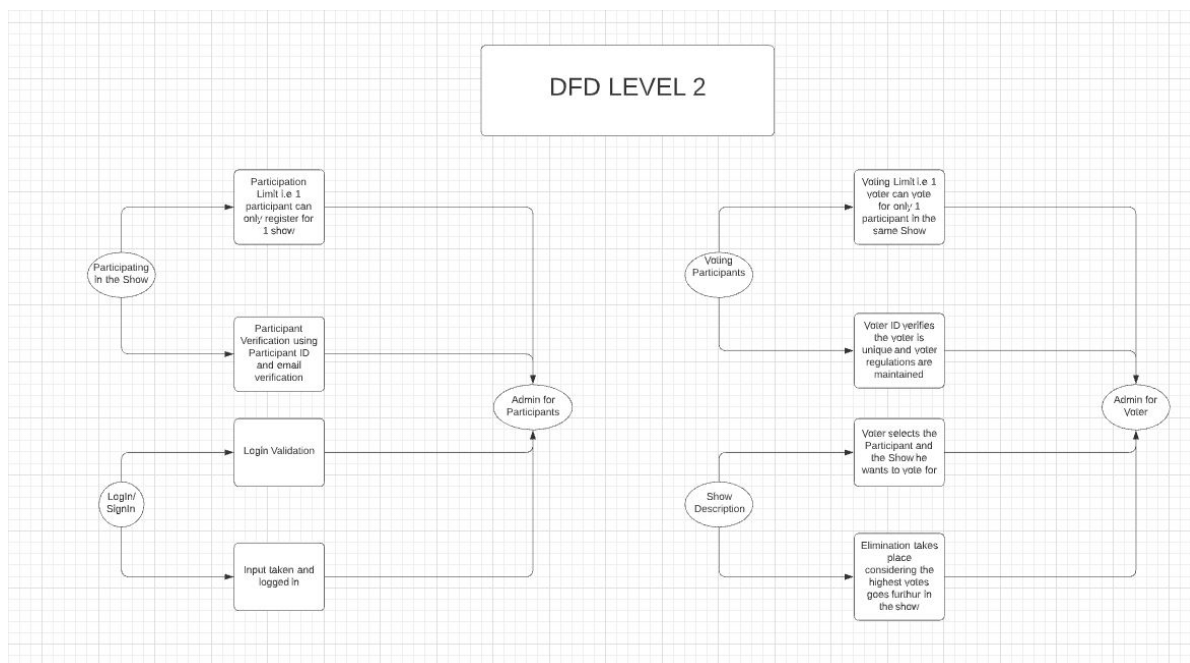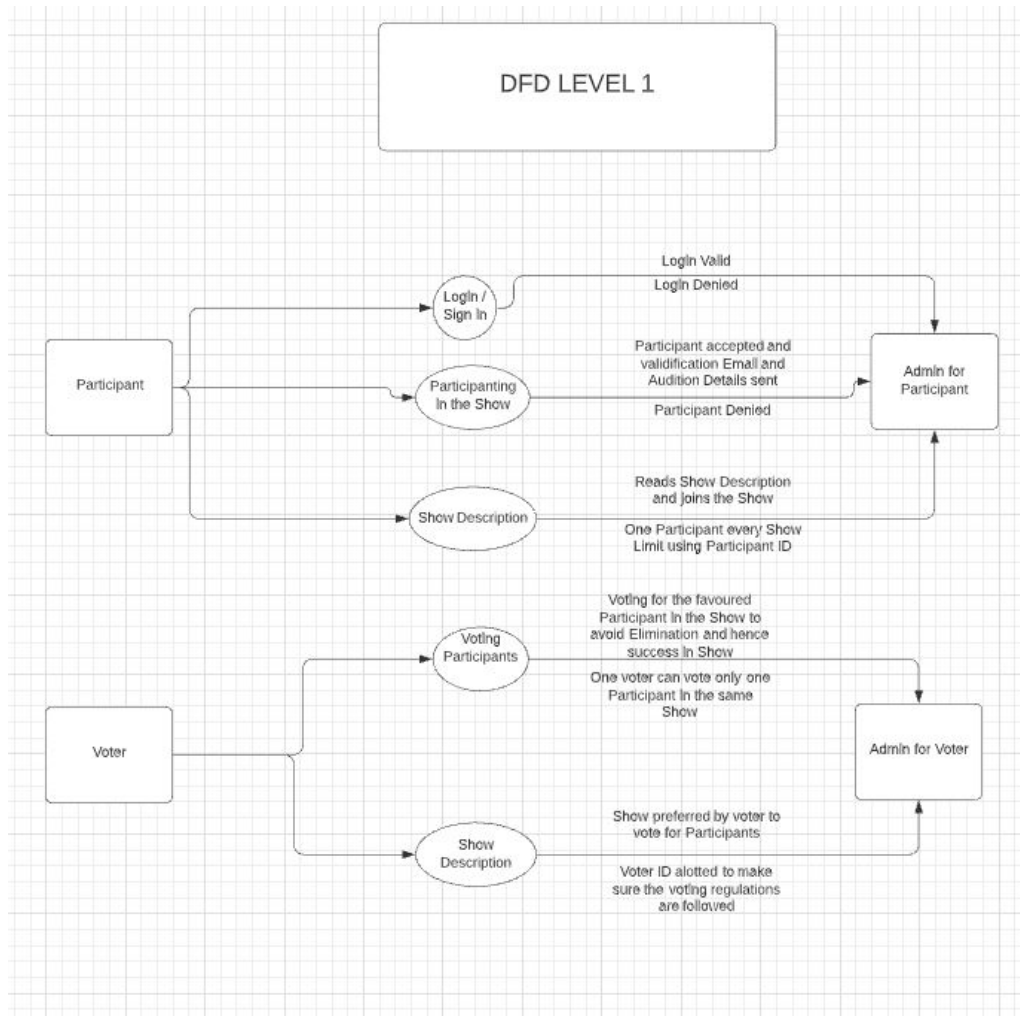
9. Class Diagram:
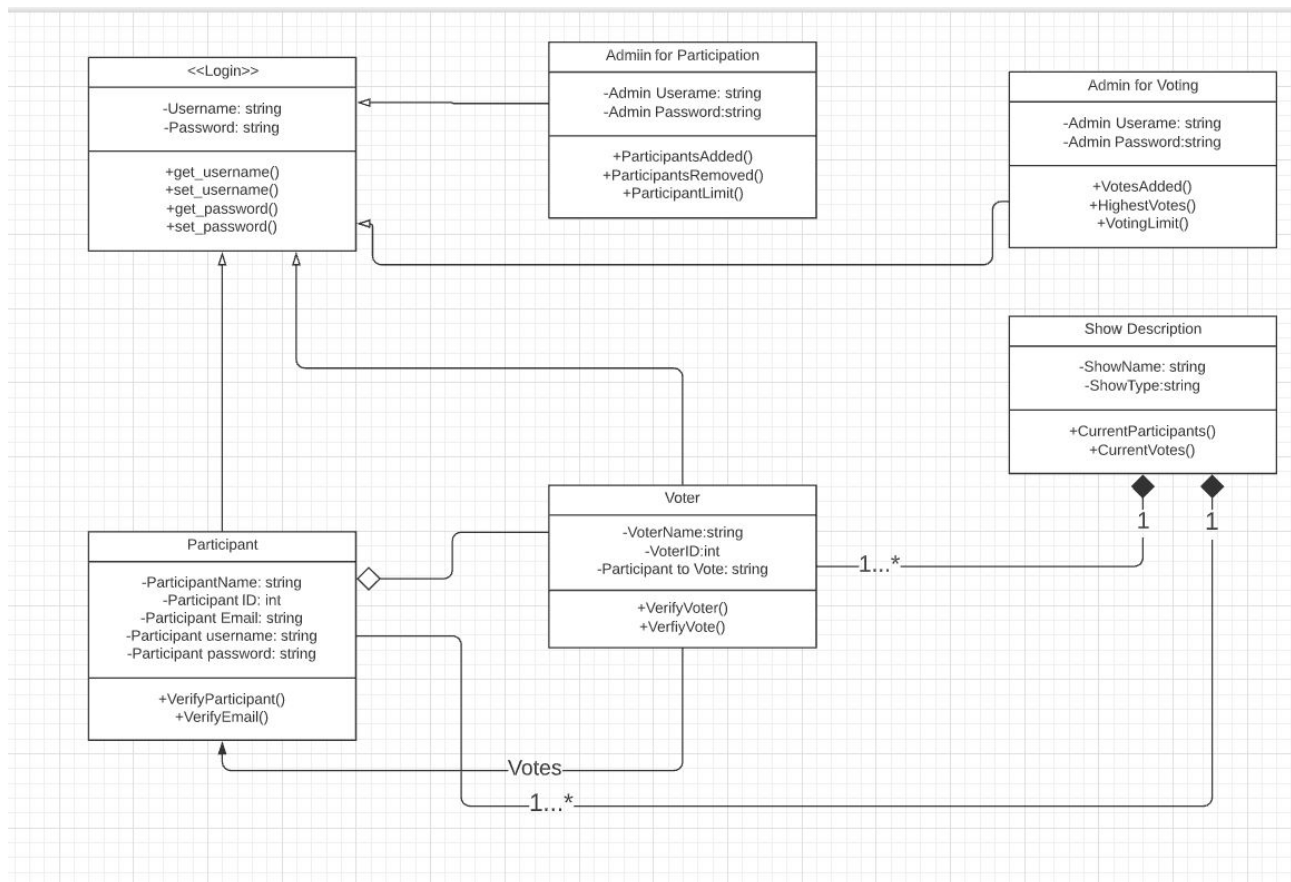
10. ER Diagram:
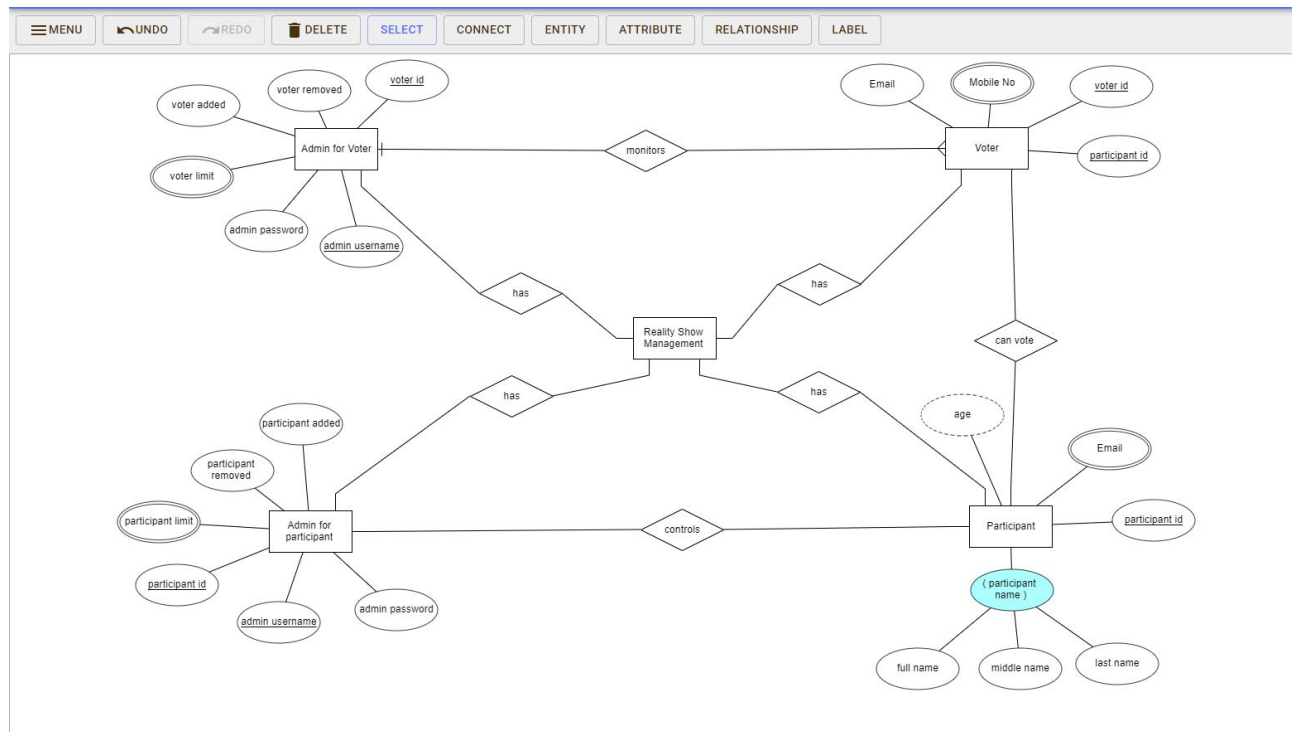
11. DFD Diagrams:

Software Requirements Specification for Reality show management

DFD LEVEL 1

Login / Sign In
- Login Valid
- Login Denied

Participant → **Login / Sign In**

Participant → **Participanting in the Show**
- Participant accepted and validification Email and Audition Details sent
- Participant Denied

Admin for Participant

Show Description
- Reads Show Description and joins the Show
- One Participant every Show Limit using Participant ID

Voting Participants
- Voting for the favoured Participant in the Show to avoid Elimination and hence success in Show
- One voter can vote only one Participant in the same Show

Voter → **Voting Participants**

Admin for Voter

Show Description
- Show preferred by voter to vote for Participants
- Voter ID alotted to make sure the voting regulations are followed

DFD LEVEL 2

Participating in the Show
- Participation Limit i.e 1 participant can only register for 1 show
- Participant Verification using Participant ID and email verification

Login/ SignIn
- Login Validation
- Input taken and logged in

Admin for Participants

Voting Participants
- Voting Limit i.e 1 voter can vote for only 1 participant in the same Show
- Voter ID verifies the voter is unique and voter regulations are maintained

Show Description
- Voter selects the Participant and the Show he wants to vote for
- Elimination takes place considering the highest votes goes furthur in the show

Admin for Voter

Software First Trial:

Home page:

It is the landing page of our reality show management website.

It will guide the voter or the participant to go with voting or participating in the show of their choice respectively.

It has a navigation bar which contains sites to Show Description Page, Rules and Regulations related to Participating and Voting and a Contact Page where participants and voters and post any query related to the website
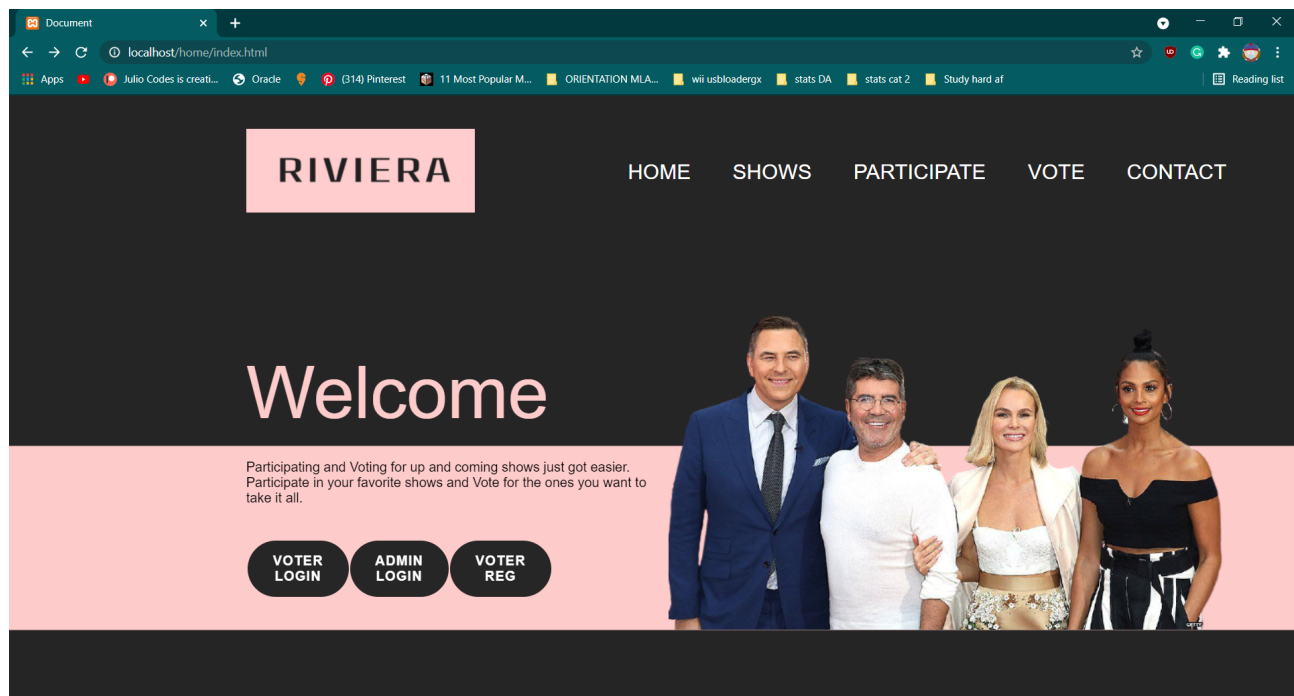
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Show Description:

It contains the no. of shows and the show description for each and every show.
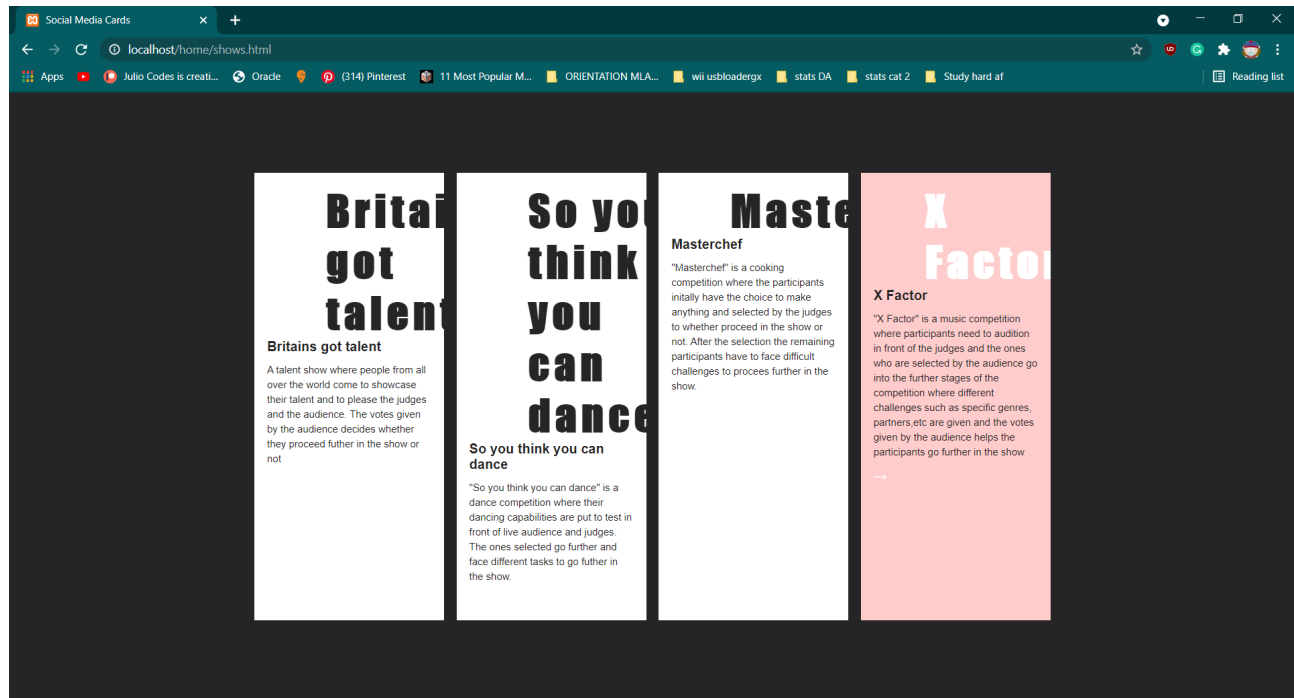
Voter Login:
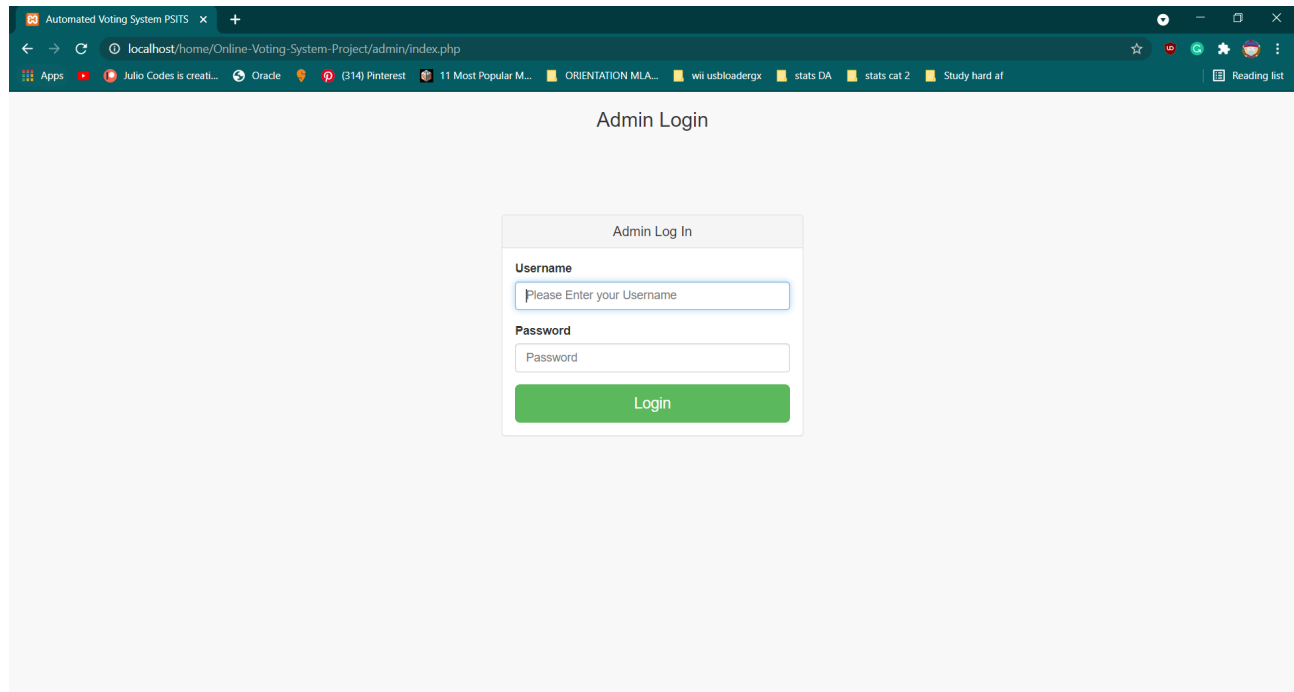
It requires the voter to put a voter id used during registration and the password generated during the registration.
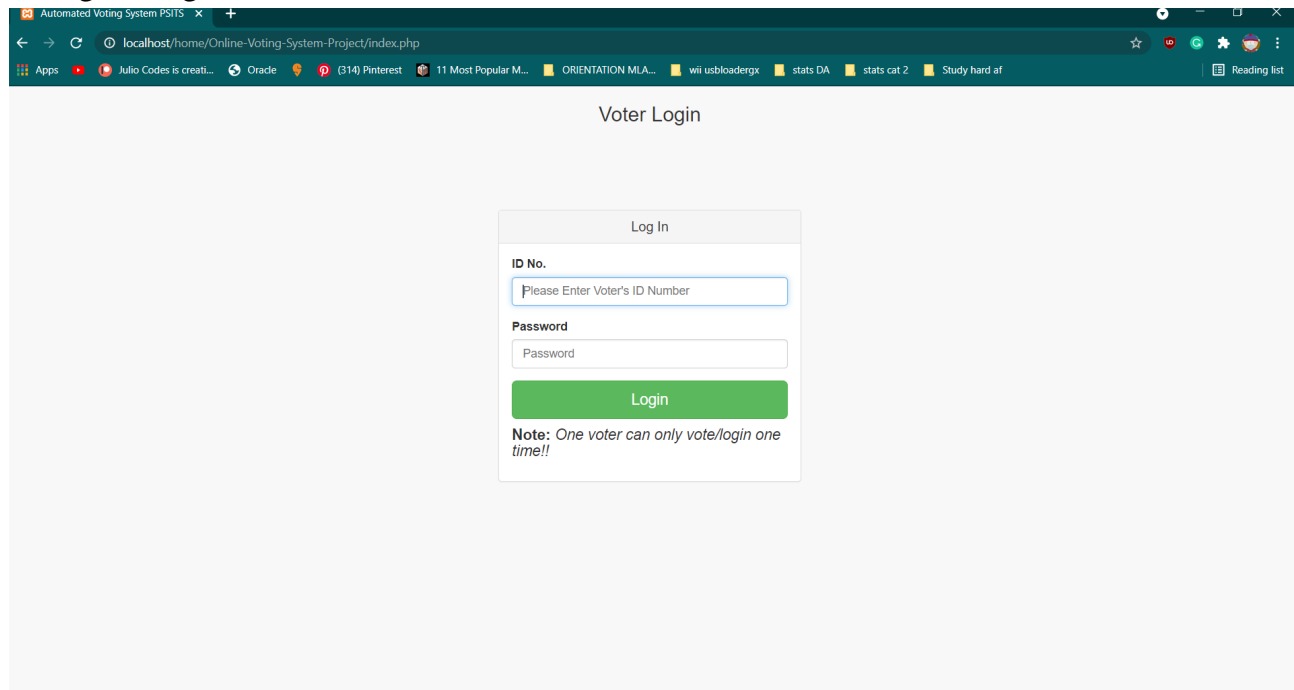
Admin Login:
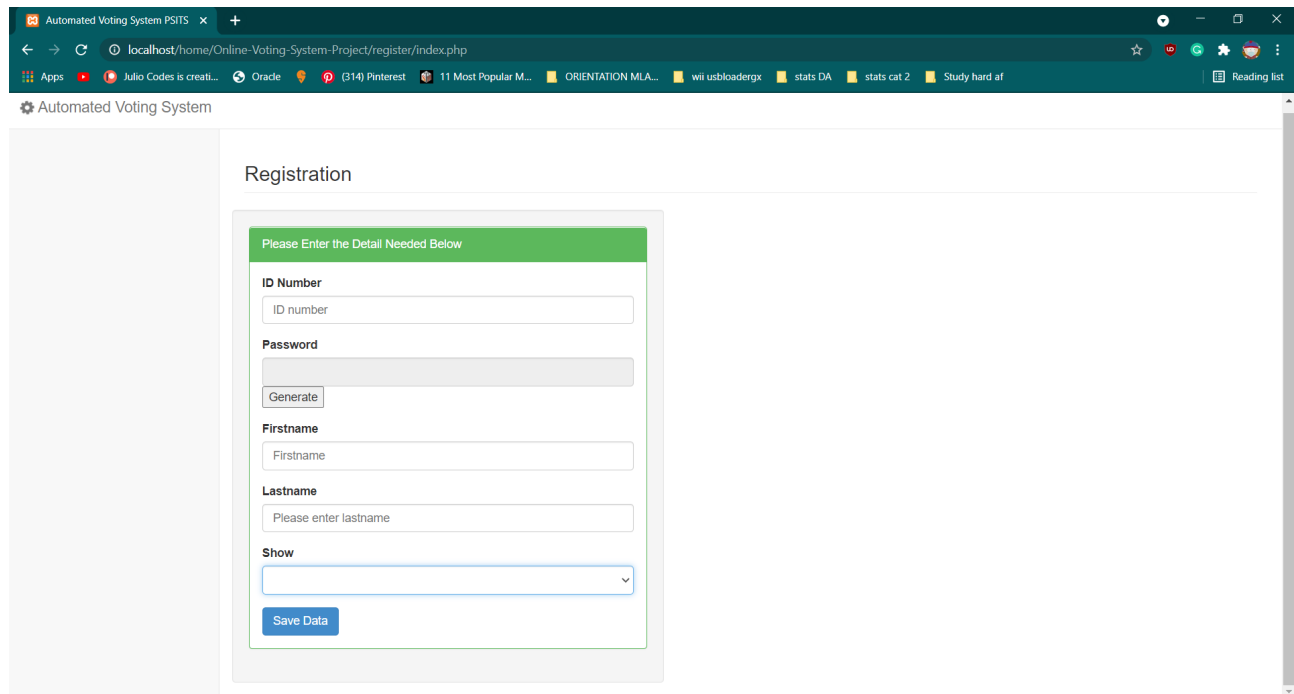
The admin of the website has already set the required username and password and needs to login to make any changes in participation and voting system.

Voter Registration:

The voter needs to set a voter ID of choice, a password generator will generate a random password, the voter will fill his first name and last name and the Show of their choice.