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TalentHunt

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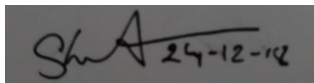
This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

DECLARATION

It hereby declares that this report has been done by us under the supervision of **Md. Shohel Arman**, Lecturer, Department of Software Engineering, Faculty of Science and Information Technology, Daffodil International University. It is also declared that neither this report nor any part of this has been submitted elsewhere for award of any degree.

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ACKNOWLEDGEMENT

It's been a pleasure to say that finally, I have completed my project TalentHunt. This is a dream of me for the last 5 months. My dream finally finds its path through the help of my supervisor MD. Shohel Arman, Lecturer, Department of Software Engineering. His spontaneous participation helps me to complete this project.

For me, it's a great learning curve, I learn a lot about web technologies. The best things are we just not only focus on development, but we also discussed this with a lot of people and very soon we are going to launch this project.

Special thanks to DR. Touhid Bhuiyan, Professor & Head of Software Engineering department, his motivational speech and timely steps which helps me to find my path. A careful guideline of my supervisor and my hard work, now I can say that this project will help a lot of people in our country, who wants to show their talent to the world.

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Chapter 1

Introduction

1.1 Project Overview

It's very hard to establish yourself by your talent, using this site people can grab their opportunity. They can benefit by upload their content. Our talent hunt events help our user financially, if their content is worthy enough. We will arrange some workshop, to develop our user skills. So, it's a great opportunity for passionate people.

1.2 Project Purpose

1.2.1 Background

The main purpose of this TalentHunt project is to give a platform to the talented people to show their talent. This is like a social site where people can upload their video, photos, and writing. This site has a huge business possibility. Suppose a director needs an actor for his/her work, but the director could not find the suitable person to hire. Then the director can visit our site to find the suitable person or the director can post a circular for a new talent. A Writer can upload a writing, a musician can upload a video of a song.

1.2.2 Benefits & Beneficiaries

The main thing is we are focusing on the media-related issue. This site can be a great site for the media related people. There is a huge opportunity to fulfill their needs.

- Create a great profile to attract attention among the people.

- Give a circular to find the suitable person.
- Show your creativity.
- Winning prize money by participate in a event.

1.2.3 Goals

We are proudly saying that this is going to be the first site in bangladesh, which is a social platform for the people who want to show their capabilities. We are also going help our user to promote them self. Our user can participate all of the events in our site, by participating in an event people can earn money. So, our goal is to give our user a platform, which helps them to make their dream true.

1.3 Proposed System Model (block diagram)

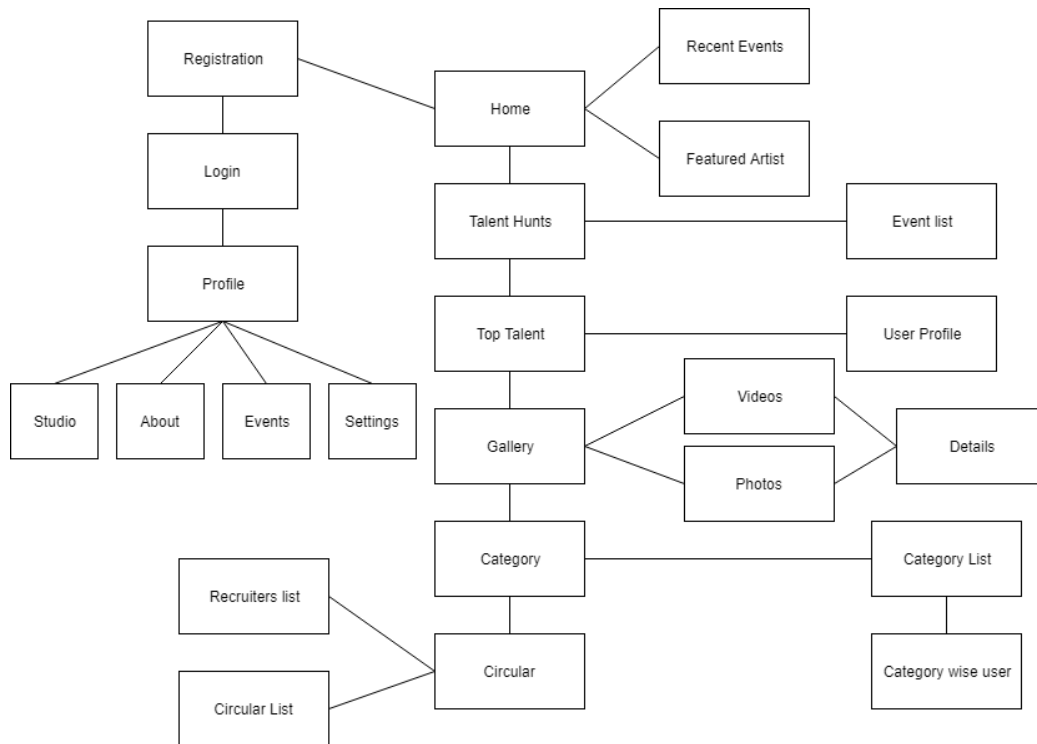


Figure 1.1: Block Diagram

Chapter 2

Software Requirement Specification

2.1 Functional Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|--|-----------|-------------------------------------|
| FR001 | New user shall be able to sign up by giving their mobile phone or email. | Must | Need to give category when sign up. |
| FR002 | For login user shall provide their username and password | Must | |
| FR003 | In home page shall be provide Two events. | Must | |
| FR004 | In home page design twelve profile picture should be visible and profile shall be change randomly. | Must | |
| FR005 | All the events shall be view as a list. | Must | |
| FR006 | In event detail page user can upload their content to participate in a event | Must | |
| FR007 | The user who are participate in a event shall be show in event detail page. | Must | |

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|---|-----------|----------|
| FR008 | Other events shall be shown in events detail page. | Must | |
| FR009 | In top talent page, all the user profile shall be shown. | Must | |
| FR010 | In profile photo and cover photo cropping option shall be implemented. | Must | |
| FR011 | Participate events of a user shall be shown in his/her profile. | Must | |
| FR012 | In profile shall be a settings section, where user can edit his/her profile. | Must | |
| FR013 | In about section user shall be able to see all the details. | Must | |
| FR014 | A authenticated user shall be able to follow another user and user shall be able to see the list of followers and following user. | Must | |
| FR015 | A authenticated user shall be able to submit a circular. | Must | |
| FR016 | User shall be able to apply under a circular | Must | |

2.2 Data Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|--|-----------|----------|
| NR001 | The project should be hosted in pythonanywhere | Must | |
| NR002 | Give some training after project complete. | Want | |

2.3 Performance Requirements

2.3.1 Speed and Latency Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|-----------------------|-----------|----------|
|----------------|-----------------------|-----------|----------|

2.3.2 Precision or Accuracy Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|---|-----------|----------|
| NF001 | Upload photo should not be more than 1mb. | Must | |

2.3.3 Capacity Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|---|-----------|----------|
| NF001 | Project hosting should be 10GB for the initial state. | Must | |

2.4 Dependability Requirements

2.4.1 Reliability Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|---|-----------|----------|
| NR001 | Hosting site should be well organized and renowned one. | Must | |

2.4.2 Availability Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|--|-----------|----------|
| NR001 | The site should be live in 24 hours. | Must | |
| NR002 | In our support period, support team should be available anytime. | Want | |

2.4.3 Robustness or Fault-Tolerance Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|---|-----------|----------|
| NR001 | IF any reason, a new bug arise support team need to fixed this within 24 hours. | Must | |

2.4.4 Safety-Critical Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|--|-----------|----------|
| NR001 | IF any reason, database need to change previous data should be backup. | Must | |

2.5 Maintainability and Supportability Requirements

2.5.1 Maintenance Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|---|-----------|----------|
| NR001 | In every week site overall working process should be monitor. | Want | |

2.5.2 Supportability Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|---|-----------|----------|
| NR001 | After lunching the project support team should be serve 6 months. | Want | |

2.5.3 Scalability or Extensibility Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|---|-----------|----------|
| NR001 | The site should have the capacity to include new module any time. | Want | |
| NR002 | Should have the ability to add new field in database. | Want | |

2.6 Security Requirements

2.6.1 Access Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|---|-----------|----------|
| NR001 | Registration should be must for every user for using this site. | Want | |
| NR002 | For any kind of upload user should need to login. | Want | |

2.6.2 Privacy Requirements

| Requirement ID | Requirement Statement | Must/Want | Comments |
|----------------|---|-----------|----------|
| NR001 | Business policy should be kept secret. | Must | |
| NR001 | Project code should not be shared with any individual and organization. | Must | |

Chapter 3

System Analysis

3.1 Use Case Diagram

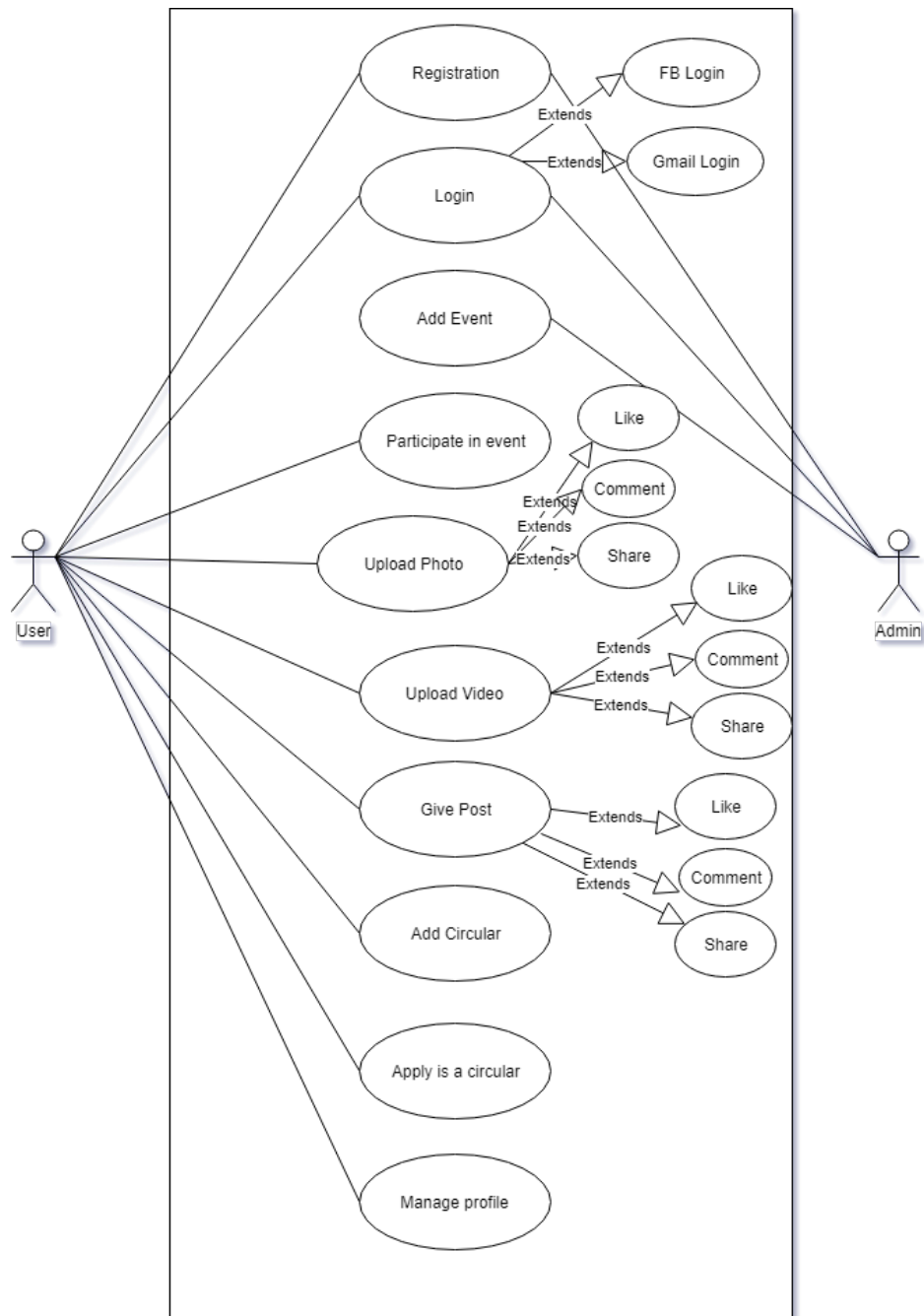


Figure 3.1: Use Case Diagram

3.2 Use Case Description (for each use case)

| | |
|----------------------|--|
| Registration | For registration user need to give his/her email or phone number. |
| Login | A registrar user needs to give valid username and password for login. In login system need to use gmail login system additionally. |
| Add Event | Events can only add by admin panel. To give a new event need mention prizes, description, rule of the event, title, short description. |
| Participate in event | A valid user can submit his/her content, bust user need to be login for this. A user can only submit content one time in a event. |
| Upload Photo | Valid user can upload photo by giving a title and description. |
| Upload Video | Valid user can upload video and video link by giving a description and title. |
| Add Circular | People who wants to recruiter a member for a specific reason can give circular. |
| Apply in a circular | Registered member of this site can apply under a circular by giving their information. |
| Manage profile | Every valid user have profile with all of his/her content and personal information. User can upload their profile photo and cover photo. |

3.3 Activity Diagram (for each use case)

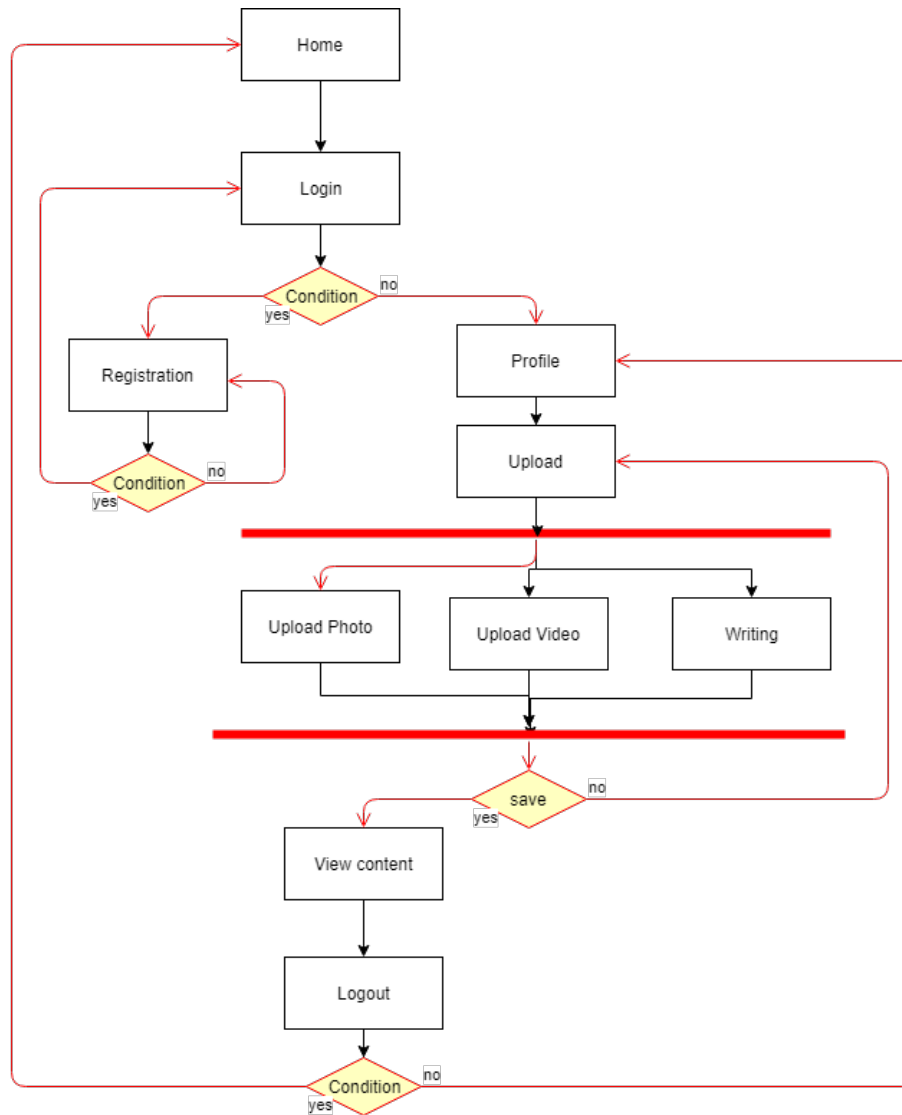
Upload video and photo

Figure 3.2: Activity diagram for upload

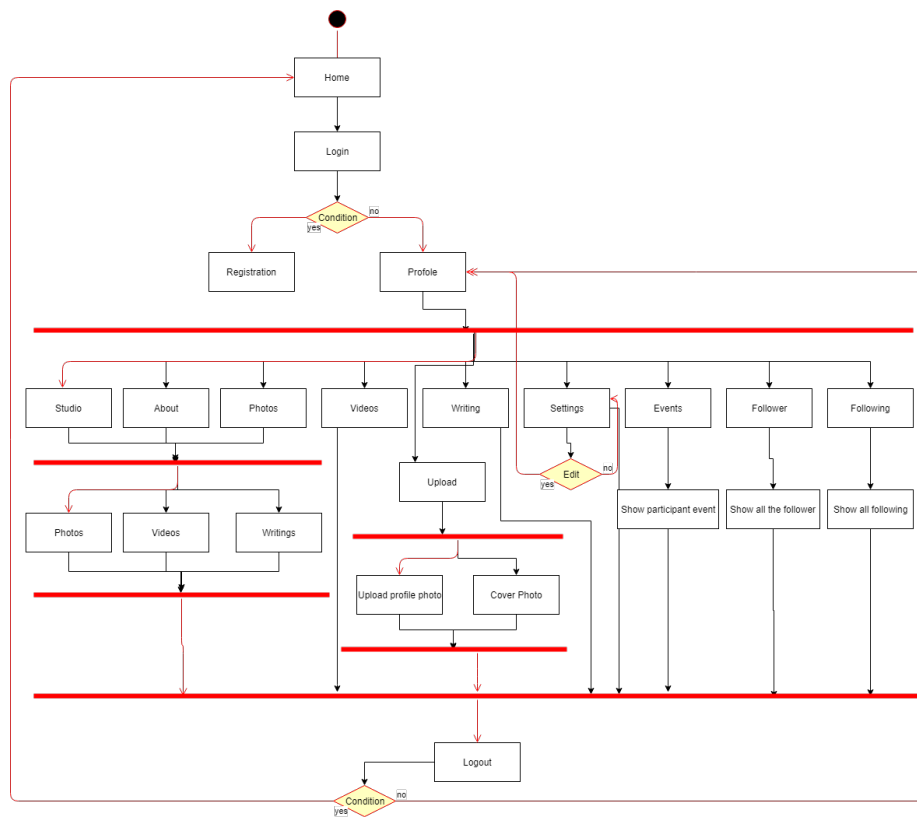
Mange profile

Figure 3.3: Profile activity diagram

3.4 System Sequence Diagram

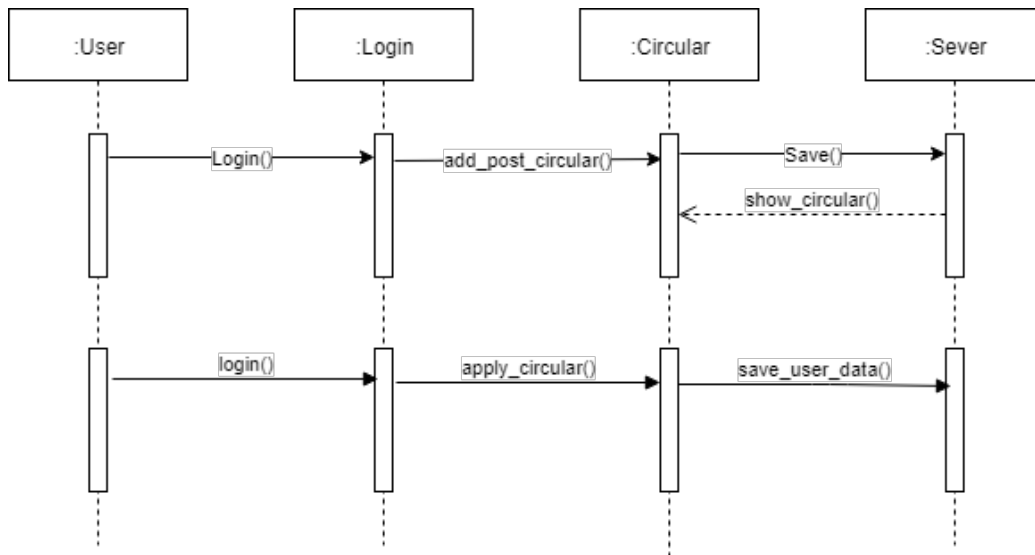


Figure 3.4: Circular sequence diagram

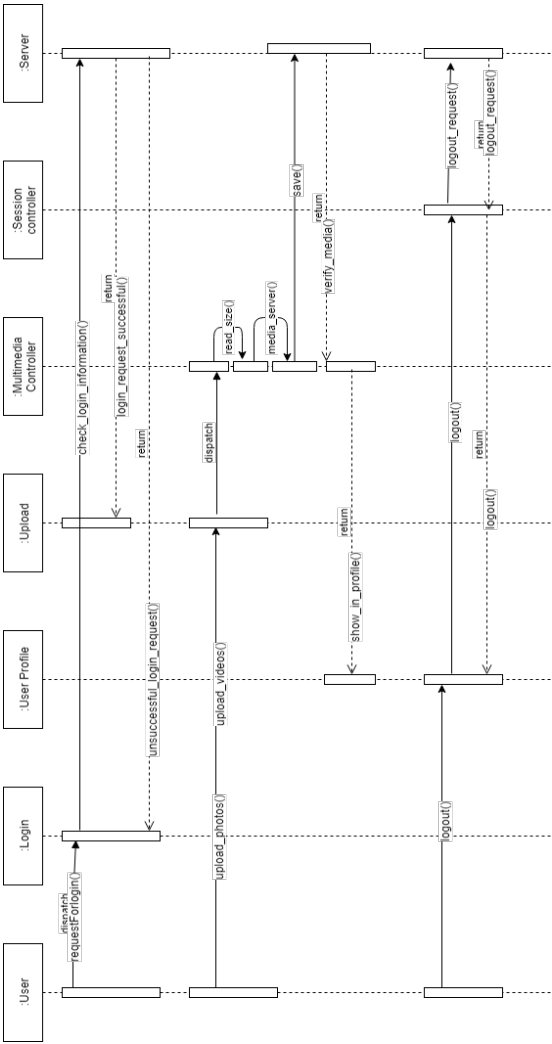


Figure 3.5: Upload video, photo sequence diagram

Chapter 4

System Design Specification

4.1 Class Diagram

4.1.1 Database Design Diagram

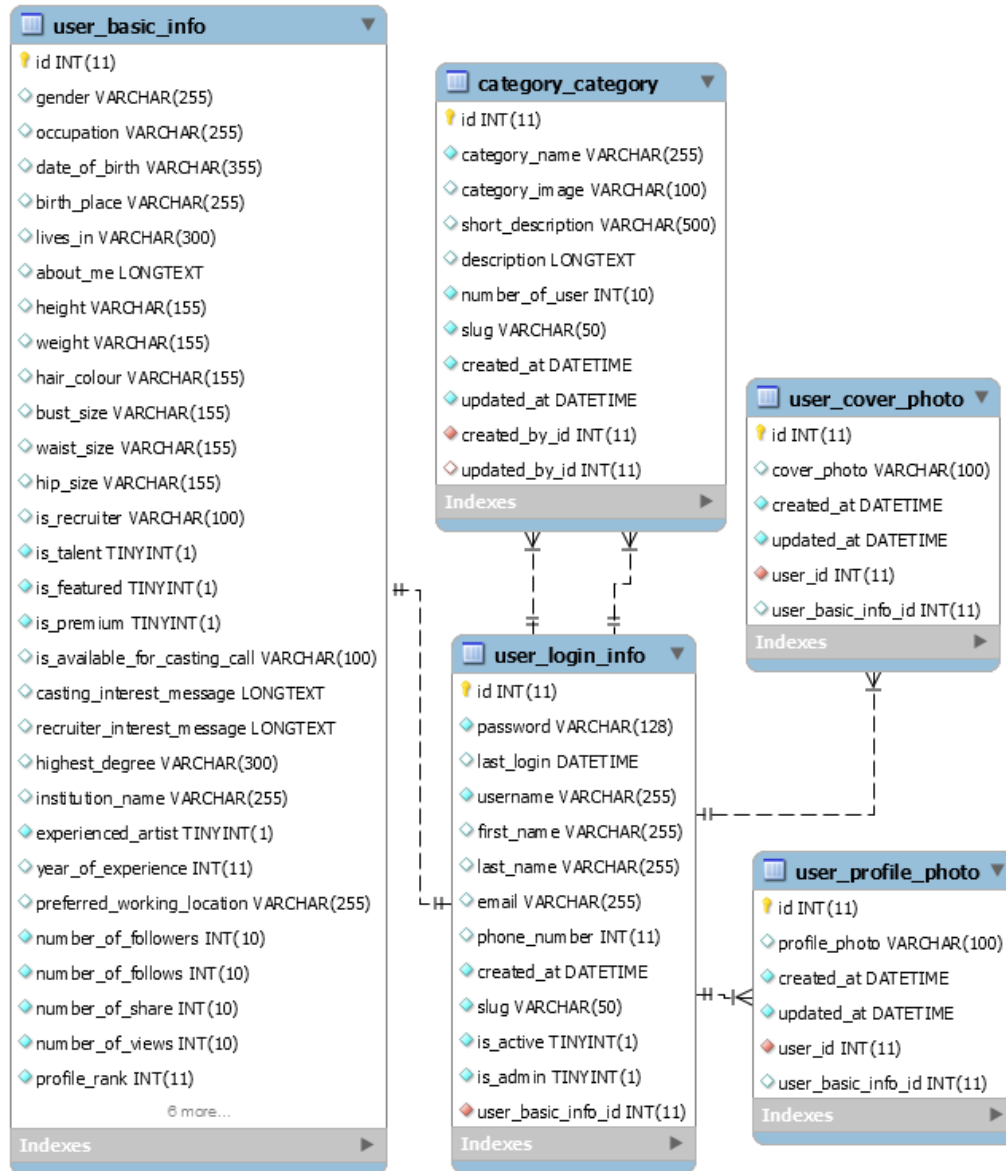


Figure 4.1: User class diagram

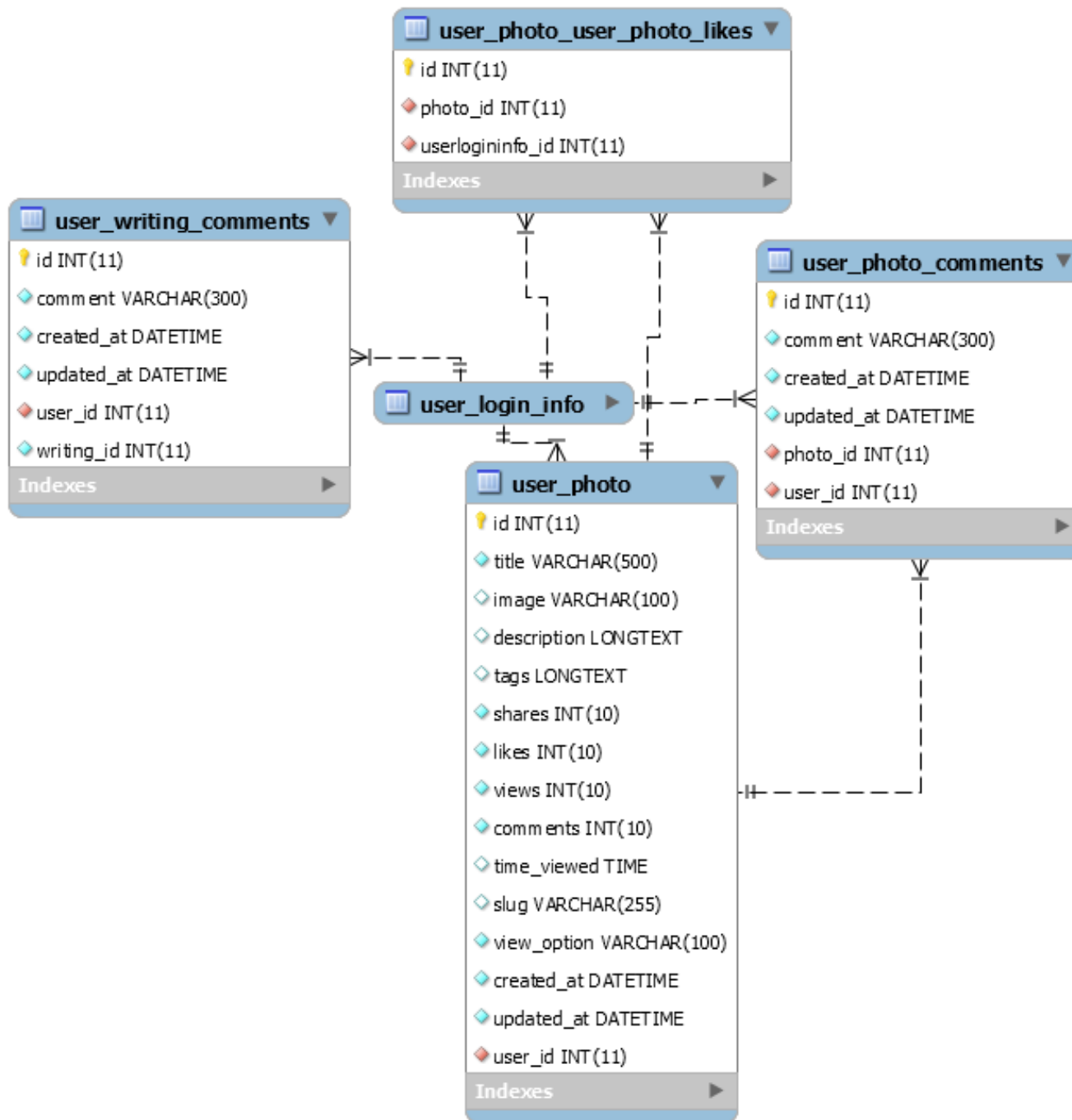


Figure 4.2: Photo class diagram

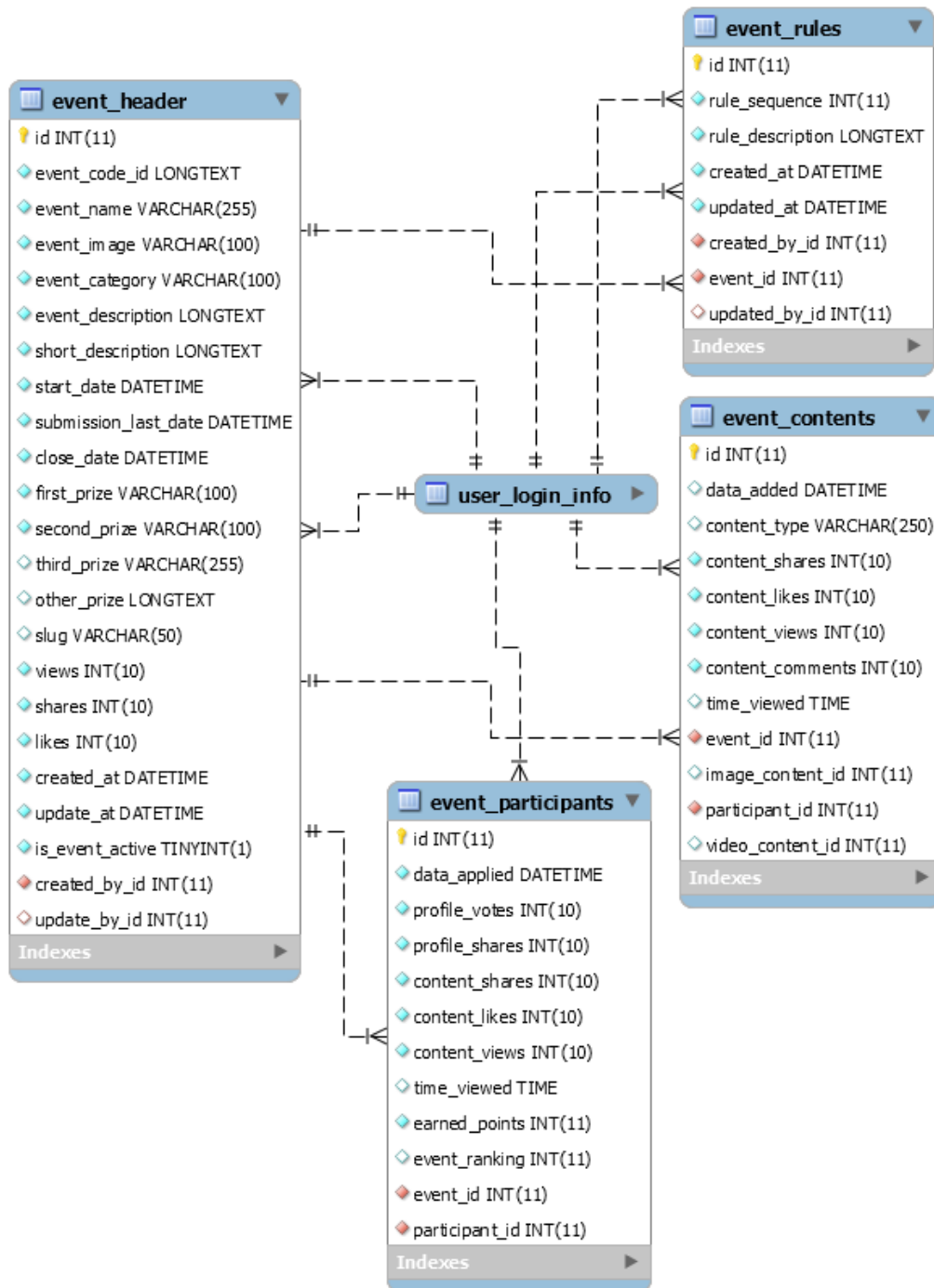


Figure 4.3: Event Class Diagram

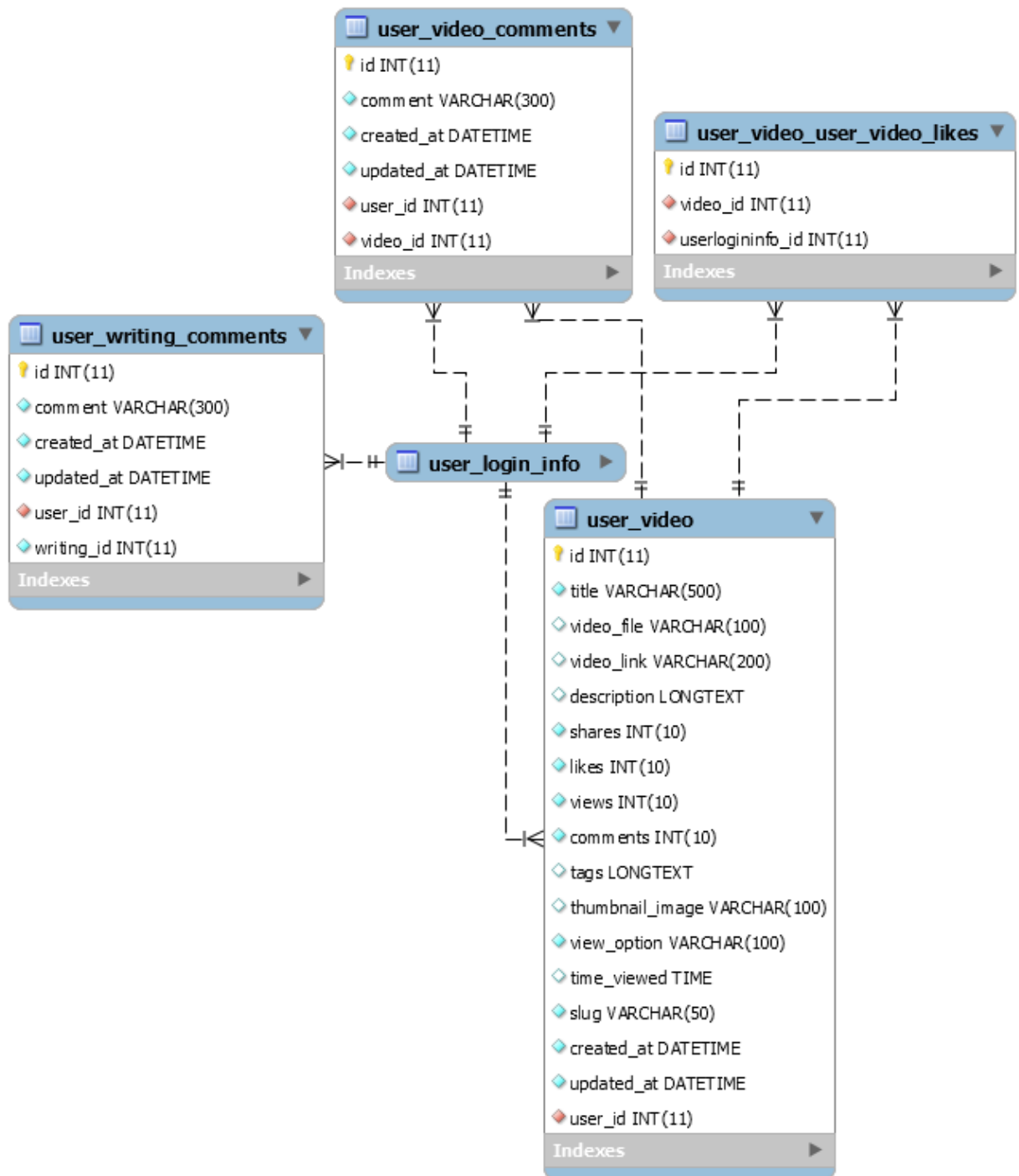


Figure 4.4: Video Class Diagram

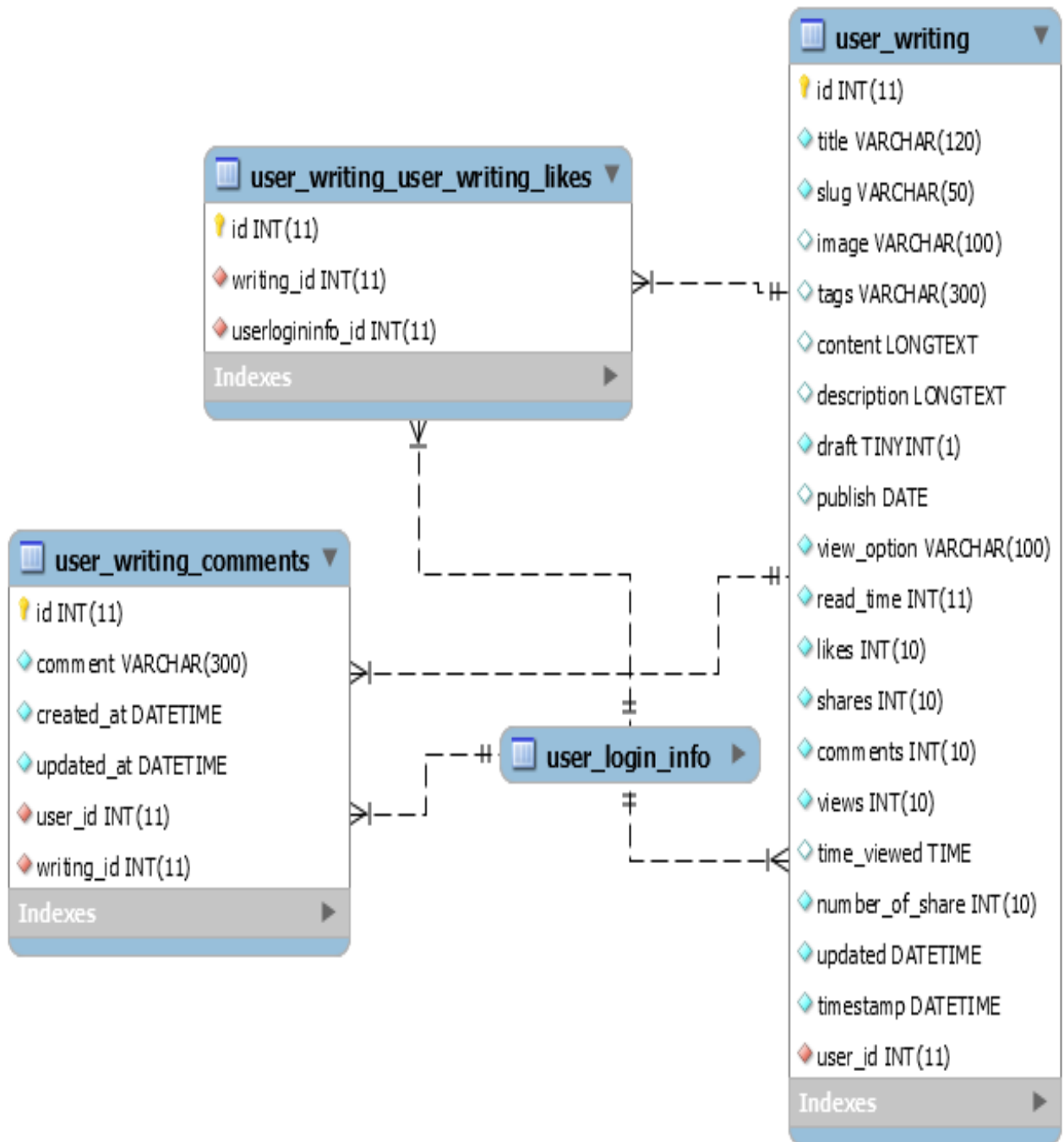


Figure 4.5: Writing Class Diagram

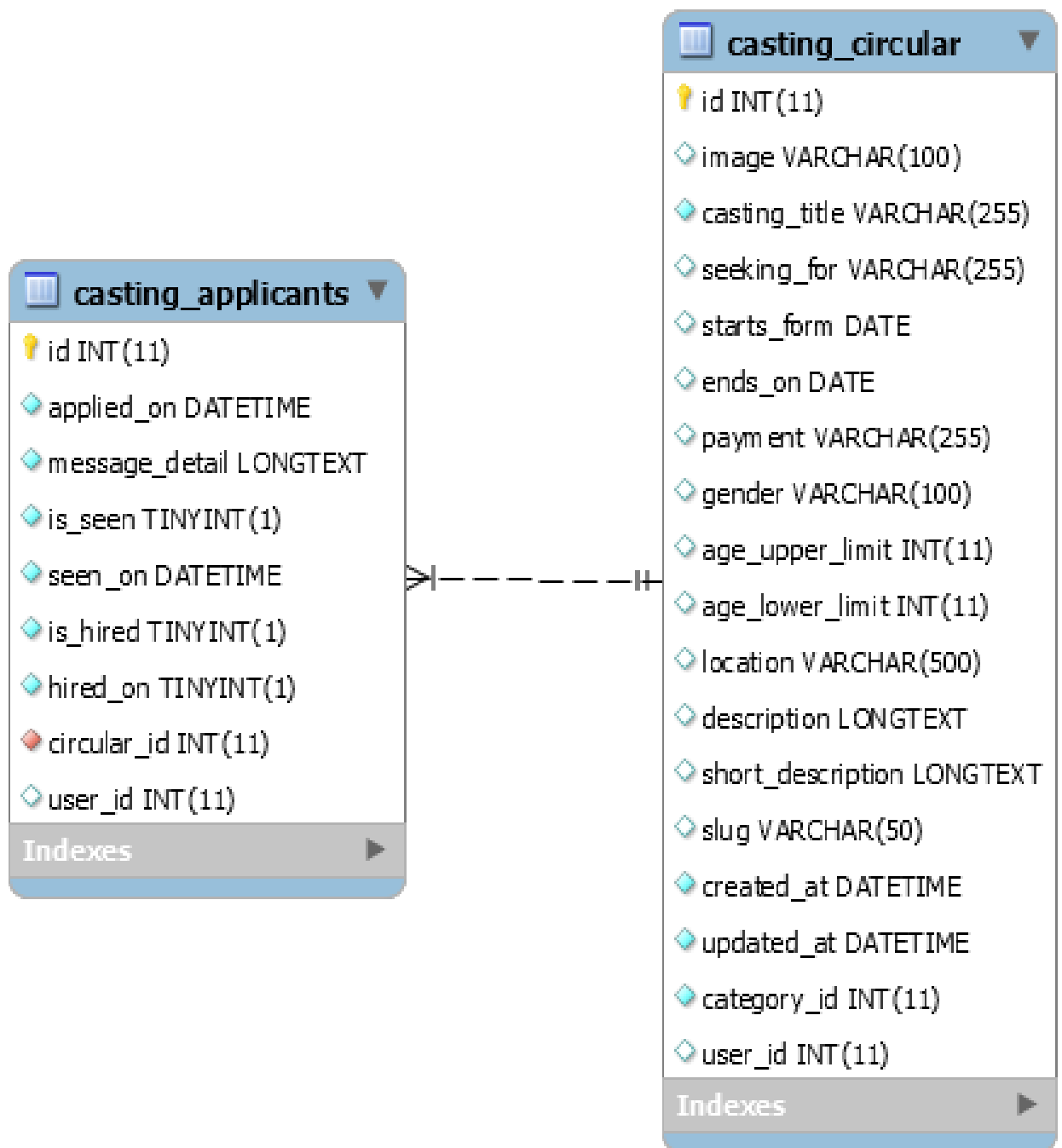


Figure 4.6: Circular Class Diagram

4.1.2 Development Tools & Technology

4.1.3 User Interface Technology

Django Framework

Django is a python based framework, for this project i use Django 2.0.1 version.

jQuery UI and Ajax

To making front end more responsible and smart I user jquery UI and Ajax.

CSS Framework or Twitter Bootstrap

As a front end framework I use twitter bootstrap version 4.

Font Awesome or Others

4.1.4 Implementation Tools & Platforms

Pycharm

Pycharm is grate IDE for develop python based project. This has a lot of facility, which make this tools best suitable and acceptable in django based community.

MySQL Community Server 8.1

Chapter 5

System Testing

5.1 Testing Environment (hardware/software requirements)

OS: Windows 10 or Ubuntu 18.04

Browser : Google Chrome or Mozilla Firefox

5.2 Test Cases

| Test Case ID/Name | Test Case Description | Step Name | Test Data | Step Description | Expected Result | Actual | Status |
|-------------------|--|-----------|-----------|-----------------------------------|---|------------------------------|--------|
| TC001-home-page | Verify all the link and functionality in home page | Step 1 | URL | Enter Site URL | System display home page of TalentHunt | http://127.0.0.1:8000/ | Pass |
| | | Step 2 | | Click on home and talenthunt logo | System display home page of TalentHunt | http://127.0.0.1:8000/ | Pass |
| | | Step 3 | | Click on Talent hunt menu | System display all the events of talent hunts | http://127.0.0.1:8000/event/ | Pass |

CHAPTER 5. SYSTEM TESTING

| | | | | | | | |
|---------------------|--|--------|-----|--------------------------------|---|---|------|
| | | Step 4 | | Click on Top talent menu | System display all the top latents of talent hunts | http://127.0.0.1:8000/top-talent/ | Pass |
| | | Step 5 | | Click on Top talent menu | System display all the uploaded photos and videos | http://127.0.0.1:8000/gallery/ | Pass |
| | | Step 6 | | Click on Category menu | System display all the category and number of user under category | http://127.0.0.1:8000/category/ | Pass |
| | | Step 7 | | Click on Hire Talent menu | system will show all the circular. | http://127.0.0.1:8000/hire-talent/ | Pass |
| TC002-registr-ation | Check the registra-tion functional-ity of the system | Step 1 | URL | Click on the register now menu | System will show the registra-tion model. | http://127.0.0.1:8000/accounts/sign-up/ | Pass |

| | | | | | | | |
|-----------------|--|--------|--|--|---|--|------|
| | | Step 2 | username: masuk, first name: MH, last name: masuk, email: mhma- suk.person al@gmail .com, mobile no: 019227093 242, category: Artist, password: mh123456, retype- password: mh123456 | Click on register button | Redirect home page with successfull message. | http://127.0. 0.1:8000/ | Pass |
| TC003- login | Check the login func- tionality of Talent Hunt | Step 1 | username: masuk, password: mh123456 | By giving valid username and password the system redirect to profile page. | system will redirect user profile | http://127.0. 0.1:8000/ profile/ masuk/ | Pass |
| | | Step 2 | username: masuk12, password: mh123456 | username is not correct so system will redirect to login page. | by giving incorrect username system will redirect to login page. | http://127.0. 0.1:8000/ account/ login/ | Pass |

| | | | | | | | |
|-------------------|---------------------------------|--------|---------------------------|---|----------------------------|------------------------|------|
| TC004-gmail-login | Check gmail login in TalentHunt | Step 1 | Give valid email address. | By giving a valid email address and password system login redirect to homepage. | Login should be successful | show system home page. | Pass |
|-------------------|---------------------------------|--------|---------------------------|---|----------------------------|------------------------|------|

Chapter 6

User Manual

6.1 User Manual

Thanks for your interest in our Talent Hunt platform it's very easy to use site.

Hardware requirements

- Ypu can use this by any kind of operating system.
- Need Internet connection.
- Use any modern browser.

Upload content in the site:

- Just click on the side upload section button.

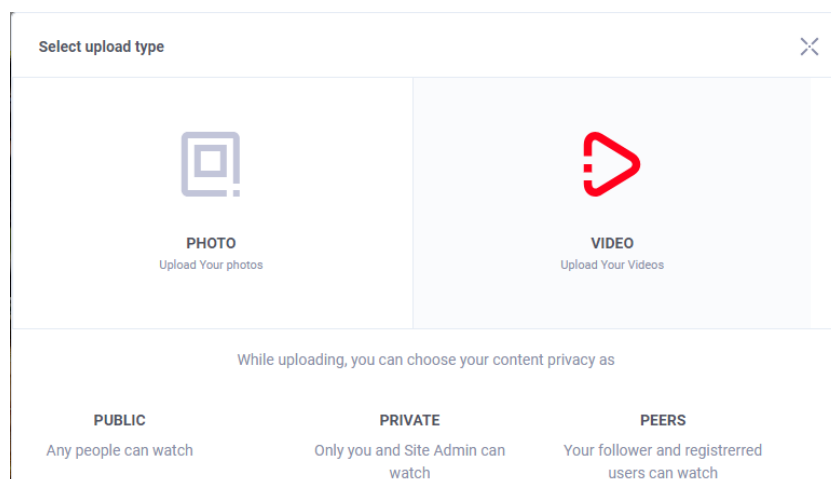


Figure 6.1: Upload Content

- You will see the option of Video and Photo.
- For upload a video, you can upload a file and give a link. In every video need to give a title and description.

Upload Videos

Title

Paste video link here

Description

Tags

Custom Thumbnail (Max 2 MB file size)

Choose File No file chosen

Video file:

SUBMIT Public CANCEL

Figure 6.2: Upload Content

- For upload photo user can upload a image format file, to upload a photo user need to give a title and description.

Upload Photos

Title

Description

Tags

Image:

SUBMIT Public CANCEL

Figure 6.3: Upload Content

Upload content in a event

In event detail page by is button Upload your content, an authenticated user will show all the content of his/her. User can choose a content to upload under event.

Chapter 7

Project Summary

It's a great journey comes to and end, after hard work of some months. I like to thanks to my supervisor. All of my teachers for their valuable time. This project is not just about coding. I learn how to communicate with people, business process of a software product.

7.1 Bitbucket Link

<https://bitbucket.org/MHMasuk/talenthunt/src/master/>

7.2 Limitations

First of all, limitation of time is the main thing, It's a big challeng to finish such a short time. After for a couple of months of hard work finally achieve my goal. I know django very well but I have short of knowledge in javascripts, but in this development process I develop my skill in javascripts.

7.3 Obstacles & Achievements

As i said already its been a great learning curve for me, I learn many difference things to develop this site.

- To gather proper requirements is the main obstacles, after talking with media related people and experience technical person, finally able to get proper requirements.
- Design the database it's hard for me, after spending a good amount of time and help of my supervisor finish my database design,

- To implement cropping in user profile for profile photo and cover photo I face lot of difficulties because of my low javascripts knowledge but at the end I successfully implemented in my system.

7.4 Future Scope

This project has a huge scope to implement lots of functionality for better user experience. Most important things is proper marketing can give a huge boost.

In future my first plan is implement a time line and live chat option. We are focusing on built a team for this talent hunt project, whose are constantly working on make this site more user friendly.

7.5 Reference

- <https://www.djangoproject.com/>
- <https://stackoverflow.com/>
- <https://djangopackages.org/>
- <https://books.agiliq.com/projects/django-admin-cookbook/en/latest/>
- <https://www.mysql.com/products/workbench/>
- <https://simpleisbetterthancomplex.com/>