A

Project Report

On

WALLPAPER

Developed At

Saurashtra University

Department of Computer Science

As a Partial Fulfill of MSc. IT & CA Sem-3

Academic Year 2018-2019

Submitted To

Saurastra University

Department of Computer Science

Under the Guidance Of

Pro. Vaishali Desai

Developed By

Manthankumar Satani

Dhavalkumar Purohit

Index

Project Definition

- **Project Title:-** Wallpaper
- **Frontend Tool:-** HTML5, Bootstrap, CSS3, AngularJS, JQuery
- **Backend Tool:-** Django 2.0.6 – python3.6
- **Database:-** SQLite3
- **Project Guide :-** Pro. Vaishali Desai
- **Developed By:-** Manthankumar Satani

  Dhavalkumar Purohit
- **Submitted to:-**

  Saurashtra University Department of Computer Science Rajkot
- **Academic Year:-** 2018-2019
- **Academic Stream:-**

  3rd Semester of MSc. IT & CA (Master of Science in Information Technology and Computer Application)

Abstract

Wallpaper providing a great functionality of managing wallpaper.

In this Project, the main purpose of the Website is to display wallpaper in proper manner and allow user to download them.

In this Website, main two types of users would be there.

1. User
2. Admin

Initially User can use the website for personal use like user can download or upload the wallpaper.

Preface

- This Website is used to download and upload wallpapers.

- This Website is used to set, delete or manage the wallpaper by the user.

- User can see the list of Wallpaper that already uploaded and can upload their own.

- This Website is developed in HTML5, Bootstrap, CSS3, AngularJS, JQuery at front end and uses the Django 2.0.6, python 3.6 as backend and SQLite3 Database.

Candidate Declaration

We declare that 3rd semester's report entitled "***WALLPAPER***" is my work conducted under the Master guide, Pro. Vaishali Desai.

We further declare that to the best of my knowledge the report for MSc. IT&CA (SEM-3) semester does not contain part of the work which has been submitted for the award of MSc. IT&CA (SEM-3). Degree either in this or any other university without proper citation.

Manthankumar Satani

Dhavalkumar Purohit

Acknowledgement

We are student of MSc IT&CA 3rd Sem. in Saurashtra University Department of Computer Science - Rajkot. We thank to the collage for giving us an opportunity to make a project.

And also thanks to the entire person who has landed their support in shaping of this application.

We have very thankful to all those who have helped us in preparing and guiding this Project on “WALLPAPER”. We have feeling a great happiness to present this Documentation.

In particular, we would like to thank our Project guide pro. Vaishali Desai who had spent her precious time for my project and provides me such nice and encouraging environment. It would be impossible for me to complete this project without her important instruction and supervision.

We would like to express my deepest gratitude to all faculties and our head of the department Mr. C. K. Kumbharana who showed trust in both of us with such a challenging project. So we heartily thanks to him for spending his valuable time and providing better guidance for achieving our goal.

[Manthankumar Satani]

[Dhavalkumar Purohit]

Introduction

- In today's generation we are working and growing very fast as well as the technology also growing fast so this project is basically aims to learn the technical skills that are now evolving in the real world and learning or working in the environment like real company does.

- We have still a limited knowledge and understanding of the wide number of technologies used by the user, so we hope that it is mostly accurate, complete and that it will help you.

- The Purpose of this website is faster response to queries. Therefore it can show the wallpapers in categorized manner and allow download the same result set efficiently in less time. The website of WALLPAPER is faster because it will do less work when extracting the result tulles form the database

- Technology Literature:

....A good website is much more than a few lines of code....

Feasibility Study

Measure of how beneficial or practical the development of an information system will be to an organization.

TYPES OF FEASIBILITY STUDY:-

- *Technical Feasibility*
- *Economic Feasibility*
- *Operational Feasibility*
- *Schedule Feasibility*

Technical Feasibility:

Technical feasibility is normally under take to find out whether the work can be done with the present equipment, current production, existing software technology and available personal.

Economical Feasibility:

Economic feasibility analysis normally determines the cost and expected saving of each alternative that may be have decided.

Operational Feasibility:

Will the system be used if it is developed and implemented?

Will there be resistance from users?

Schedule Feasibility:

How reasonable is the project timetable?

Database Design

DFD:

A Data Flow Diagram (DFD) is a graphical representation of the "Flow" of data through an information system. DFDs can also be used for the visualization of data processing (structured design).
On a DFD, data items flow from an external data source or an internal data store to an internal data store or an external data sink, via an internal process.

A DFD provides no information about the timing or ordering of processes, or about whether processes will operate in sequence or in parallel. It is therefore quite different from a flowchart, which shows the flow of control through an algorithm, allowing a reader to determine what operations will be performed, in what order, and under what circumstances, but not what kinds of data will be input to and output from the system, nor where the data will come from and go to, nor where the data will be stored (all of which are shown on a DFD).

Data Flow Diagrams (DFDs) are one of the three essential perspectives of the Structured-Systems Analysis and Design Method (SSADM). The sponsor of a project and the end users will need to be briefed and consulted throughout all stages of a system's evolution. With a data-flow diagram, users are able to visualize how the system will operate, what the system will accomplish, and how the system will be implemented.

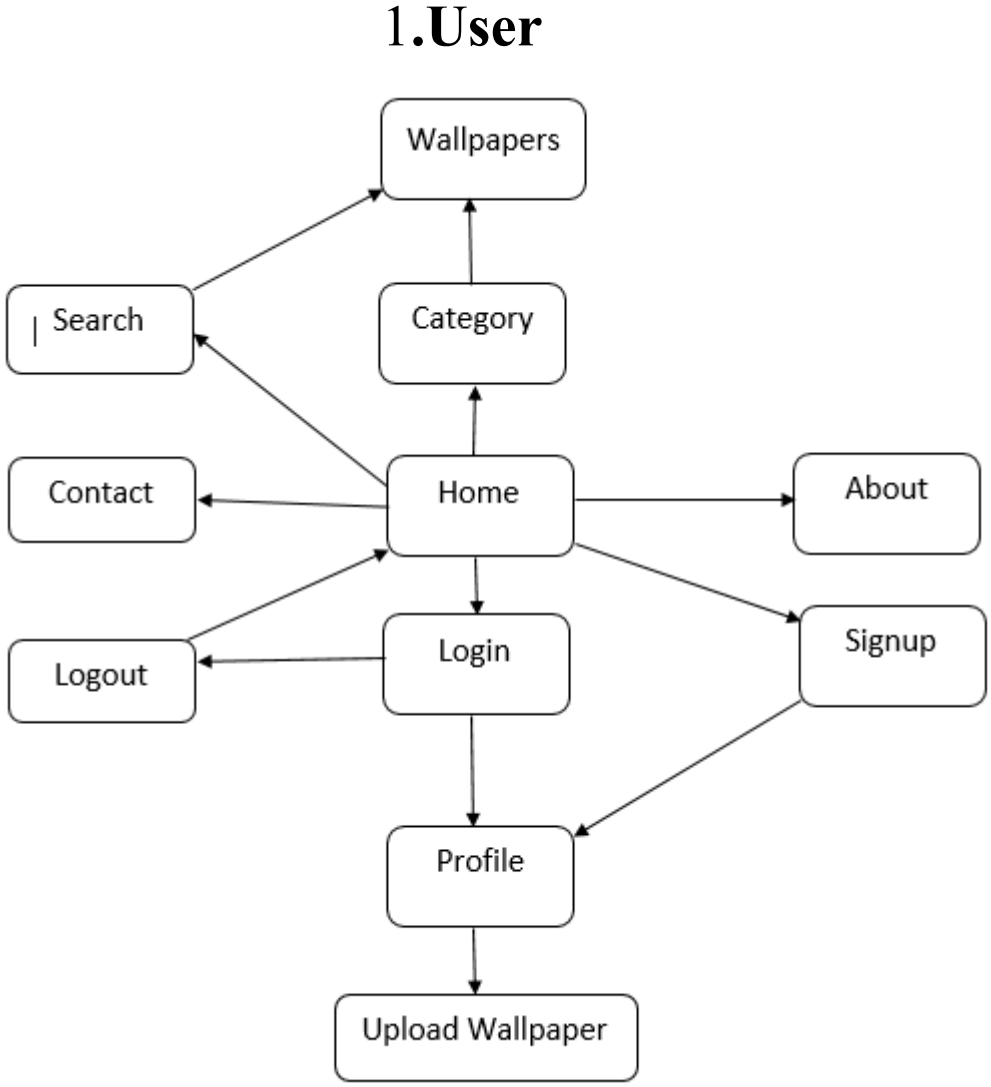
The old system's dataflow diagrams can be drawn up and compared with the new system's Data Flow Diagrams to draw comparisons to implement a more efficient system. How any system is developed can be determined through a Data Flow Diagram.

- **Level 0 SYSTEM INPUT/OUTPUT LEVEL:-**

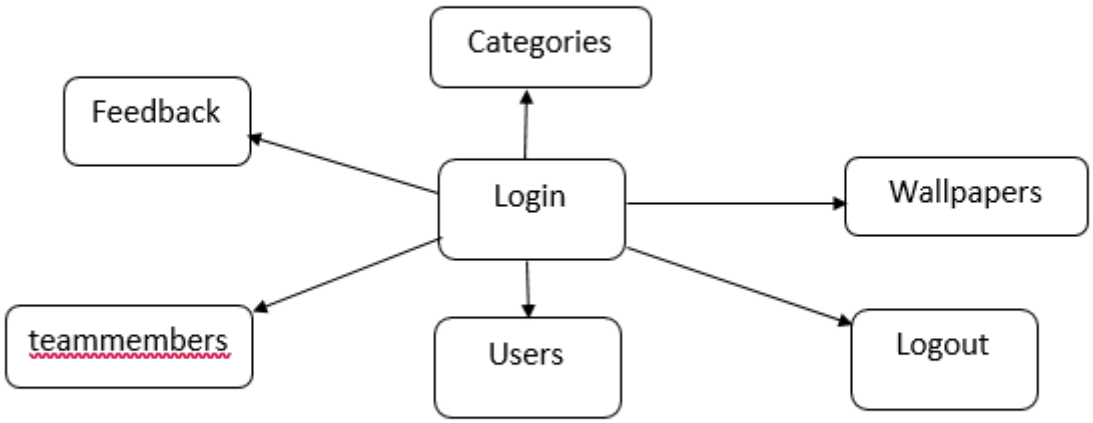
A level-0 DFD describes the system-wide boundaries, dealing inputs to and outputs from the system and major processes. This diagram is similar to the combined user-level context diagram.

- **Level 1 SUBSYSTEM LEVEL DATA FLOW:-**

A level-1 DFD describes the next level of details within the system, detailing the data flows between subsystems, which make up the whole.



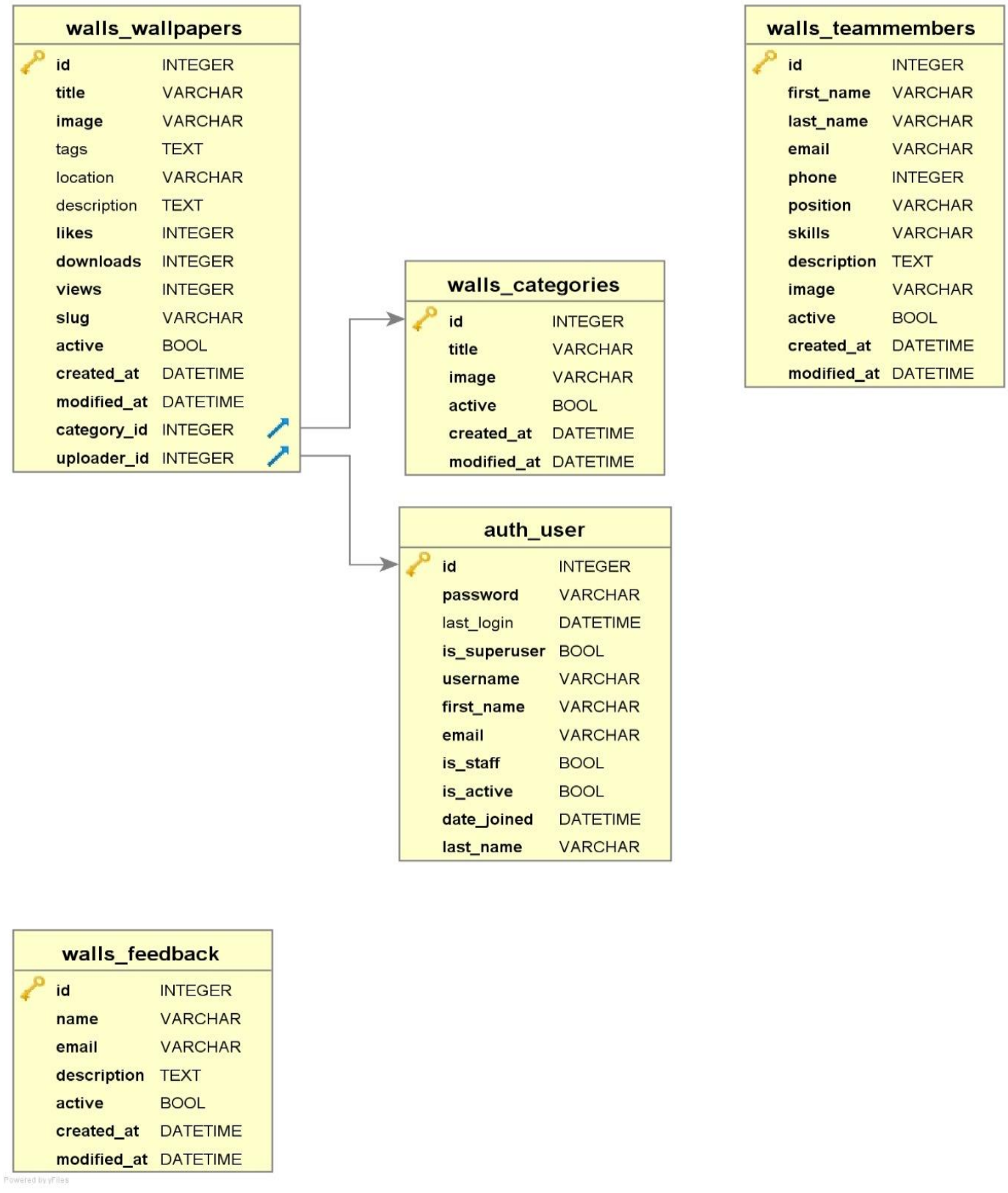
2.Admin


Categories
Feedback
Login
Wallpapers
teammembers
Users
Logout

ER Diagram

Entity Relationship Model (ERM) is a technique used to analyze and model the data in organizations using an Entity Relationship (ER) Diagram.

In Software Engineering, an Entity-Relationship Model (ERM) is an abstract and conceptual representation of data. Entity-relationship Modeling is a database modeling method, used to produce a type of conceptual schema or semantic data model of a system, often a relational database, and its requirements in a top-down fashion. Diagrams created by this process are called Entity-Relationship Diagrams, ER Diagrams, or ERDs


walls_wallpapers
id INTEGER
title VARCHAR
image VARCHAR
tags TEXT
location VARCHAR
description TEXT
likes INTEGER
downloads INTEGER
views INTEGER
slug VARCHAR
active BOOL
created_at DATETIME
modified_at DATETIME
category_id INTEGER
uploader_id INTEGER
walls_categories
id INTEGER
title VARCHAR
image VARCHAR
active BOOL
created_at DATETIME
modified_at DATETIME
walls_teammembers
id INTEGER
first_name VARCHAR
last_name VARCHAR
email VARCHAR
phone INTEGER
position VARCHAR
skills VARCHAR
description TEXT
image VARCHAR
active BOOL
created_at DATETIME
modified_at DATETIME
auth_user
id INTEGER
password VARCHAR
last_login DATETIME
is_superuser BOOL
username VARCHAR
first_name VARCHAR
email VARCHAR
is_staff BOOL
is_active BOOL
date_joined DATETIME
last_name VARCHAR
walls_feedback
id INTEGER
name VARCHAR
email VARCHAR
description TEXT
active BOOL
created_at DATETIME
modified_at DATETIME

Data Dictionary

Database Name: - db.sqlite3

Table Name: - auth_user

No	Name	Type	Not Null
1	id	Integer	
2	password	Varchar(128)	
3	last_login	Datetime	
4	is_superuser	Bool	
5	username	Varchar(150)	
6	first_name	Varchar(30)	
7	last_name	Varchar(150)	
8	email	Varchar(254)	
9	is_staff	Bool	
10	is_active	Bool	
11	date_joined	Datetime	

Table Name: - walls_categories

No	Name	Type	Not Null
1	id	Integer	
2	Title	Varchar(30)	
3	Image	Varchar(100)	
4	Active	Bool	
5	Created_at	Datetime	
6	Modified_at	Datetime	

Table Name: - walls_feedback

No	Name	Type	Not Null
1	id	Integer	
2	Name	Varchar(30)	
3	Email	Varchar(254)	
4	Description	Text	
5	Active	Bool	
6	Modified_at	Datetime	
7	Created_at	Datetime	

Table Name: - walls_wallpapers

No	Name	Type	Not Null
1	id	Integer	
2	Title	Varchar(100)	
3	Image	Varchar(100)	
4	Tags	Text	
5	Location	Varchar(50)	
6	Description	Text	
7	Likes	Integer	
8	Downloads	Integer	
9	Views	Integer	
10	Slug	Varchar(100)	
11	Active	Bool	
12	Created_at	Datetime	
13	Modified_at	Datetime	
14	Category_id	Integer	
15	Unploder_id	Integer	

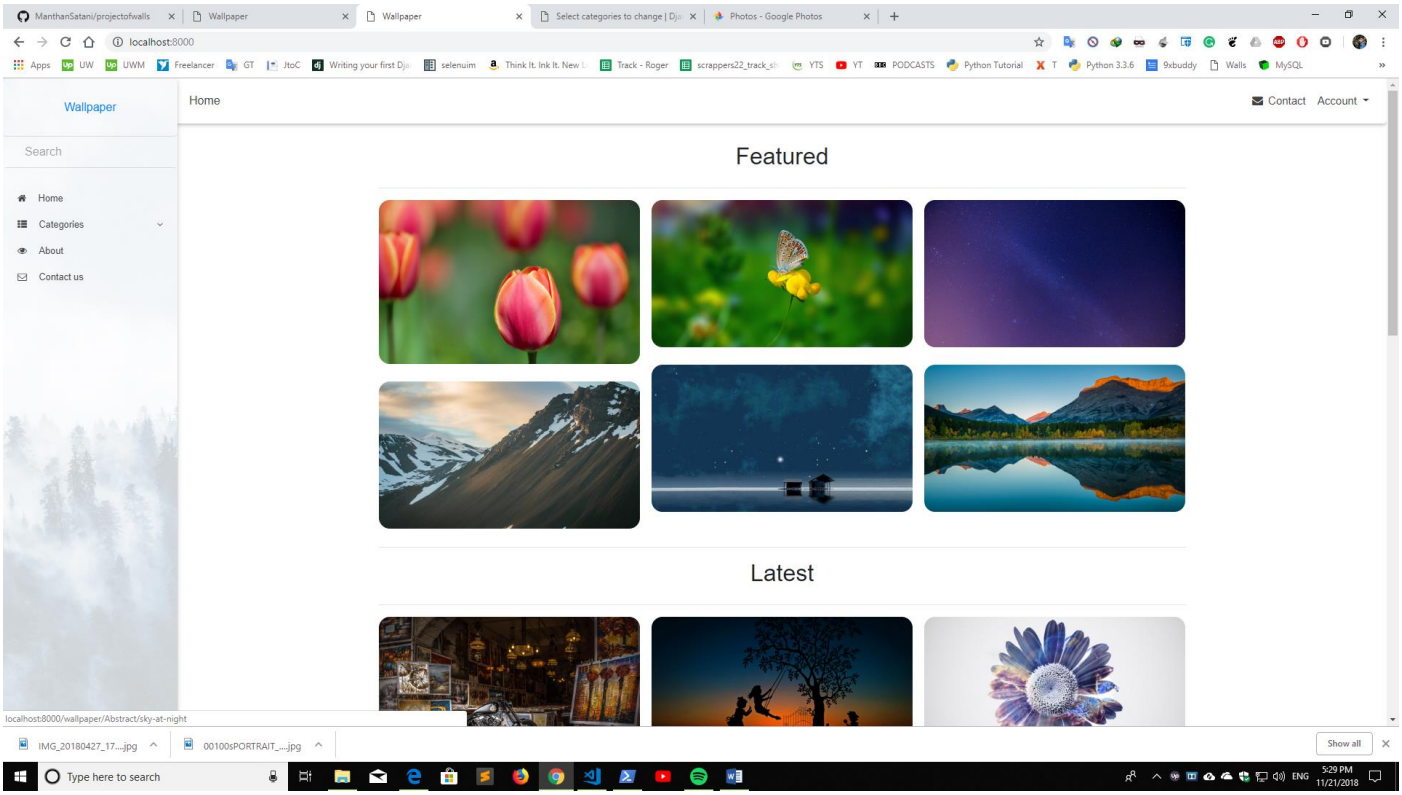
Table Name: - walls_teammembers

No	Name	Type	Not Null
1	id	Integer	
2	First_name	Varchar(15)	
3	Last_name	Varchar(15)	
4	Email	Varchar(254)	
5	Phone	Integer	
6	Position	Varchar(30)	
7	Skills	Varchar(100)	
8	Description	Text	
9	Image	Varchar(100)	
10	Active	Bool	
11	Created_at	Datetime	
12	Modified_at	Datetime	

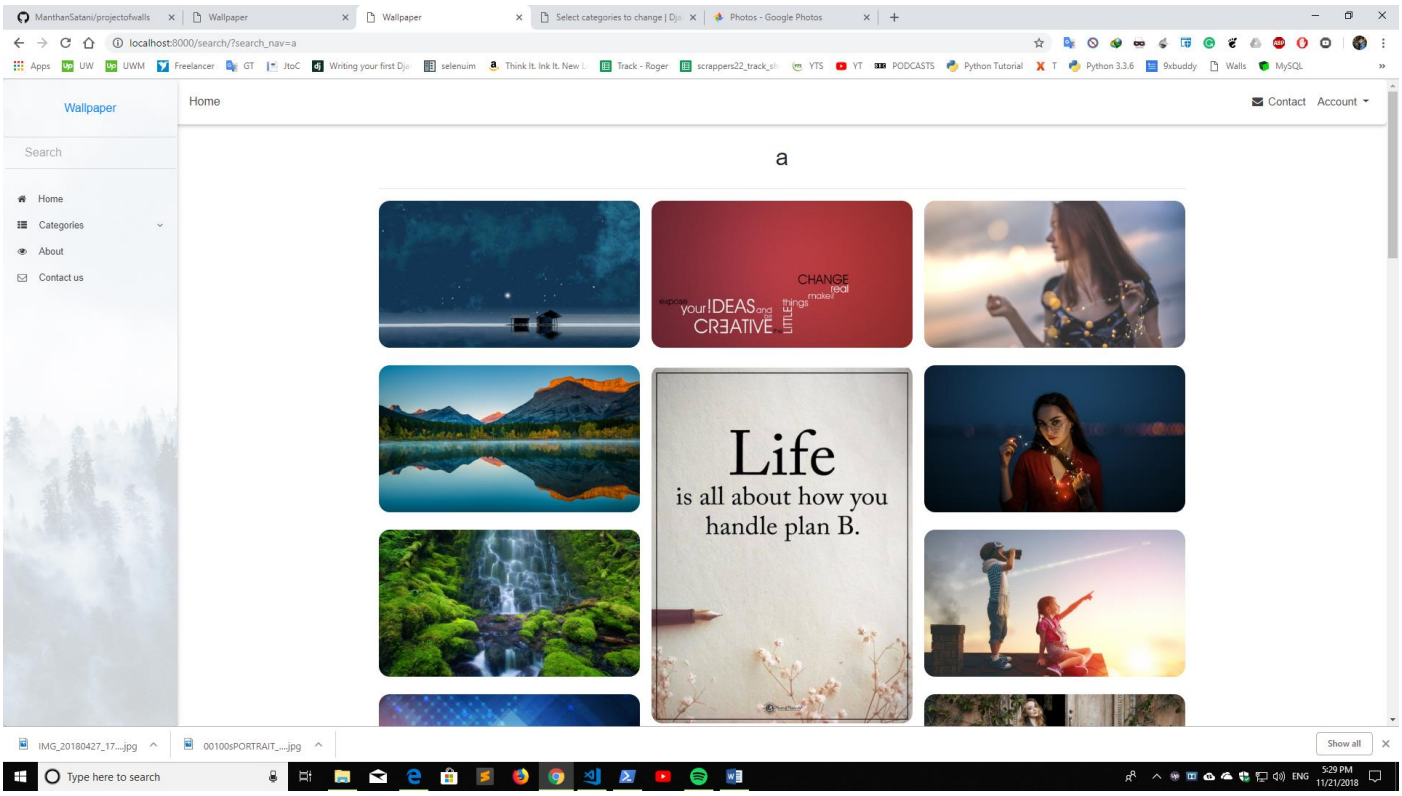
Screenshots

User

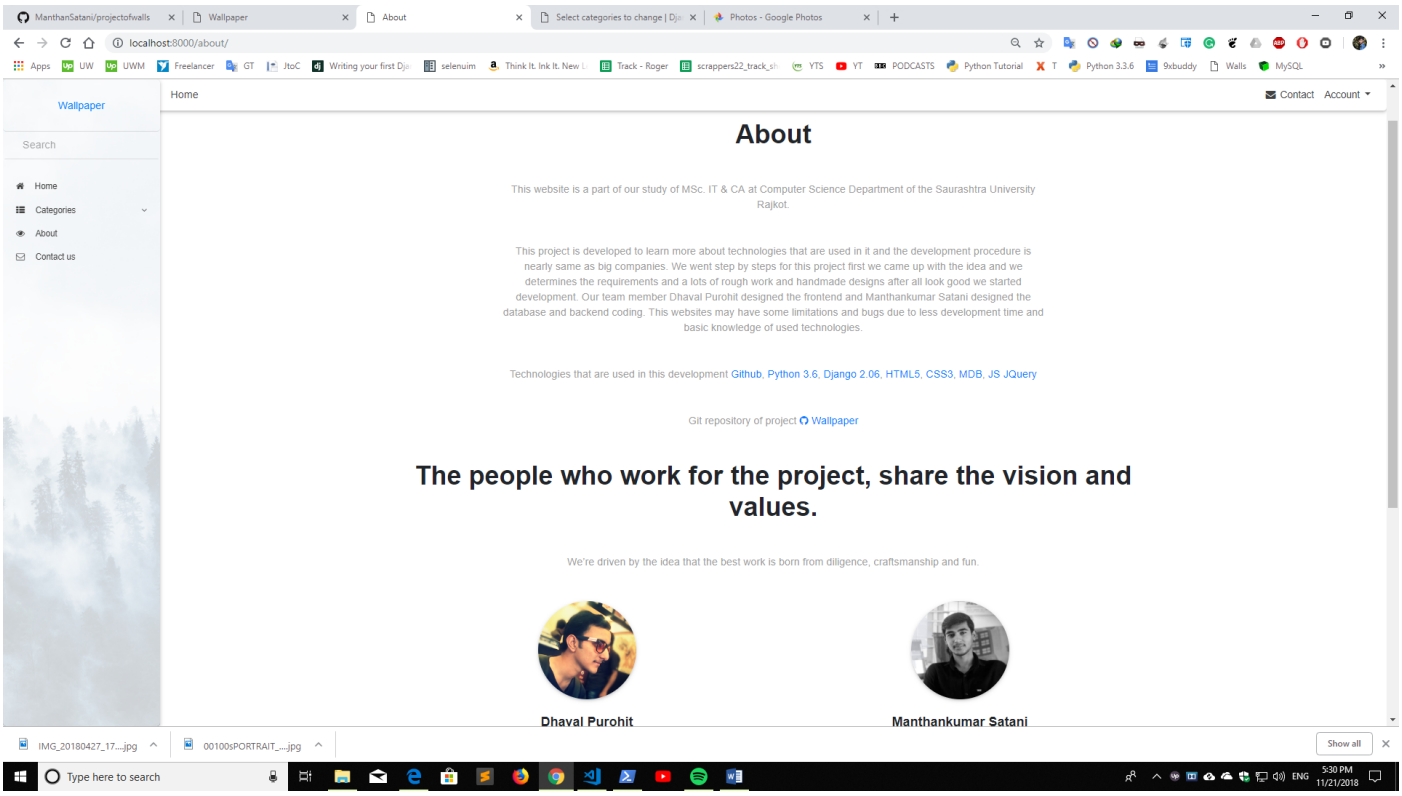
Home



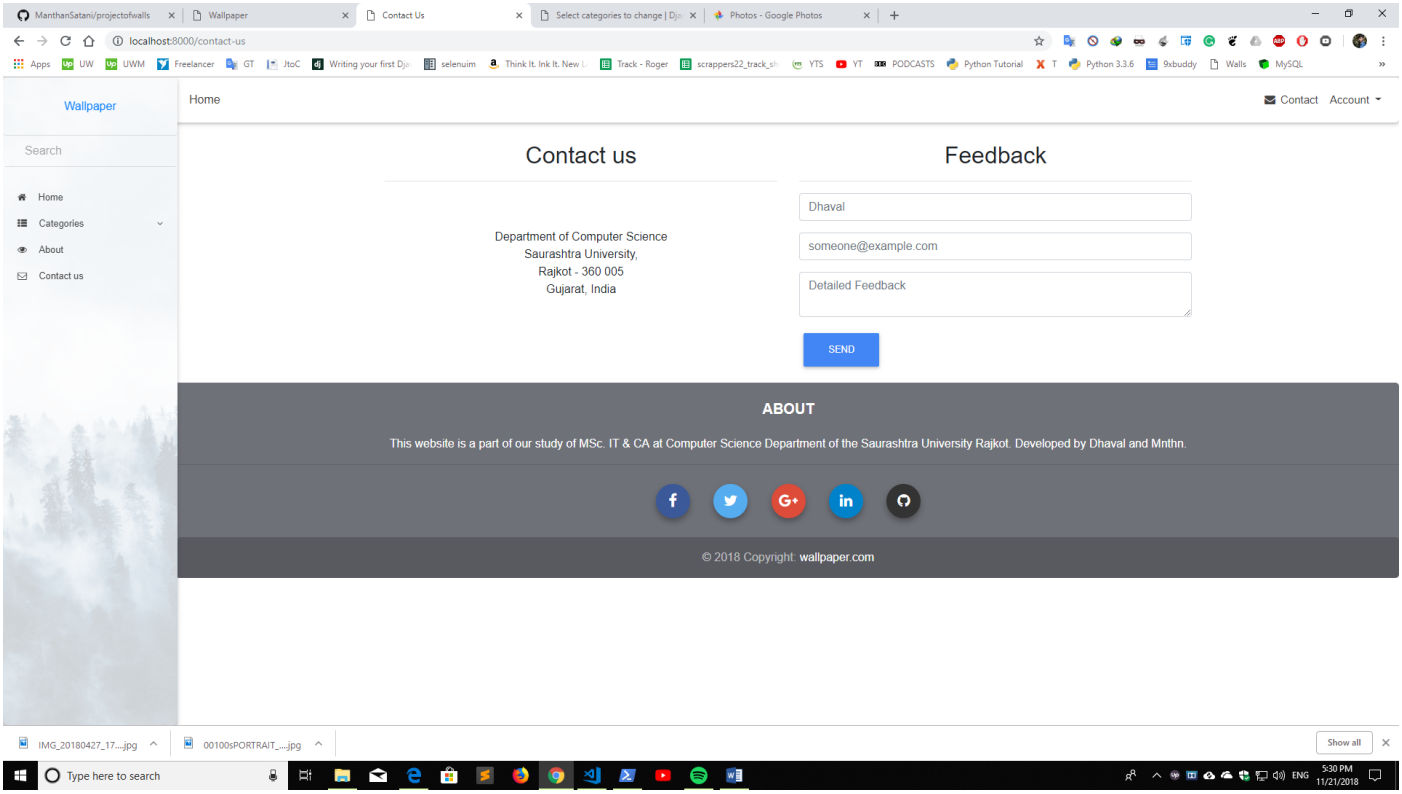
Category / Search Result



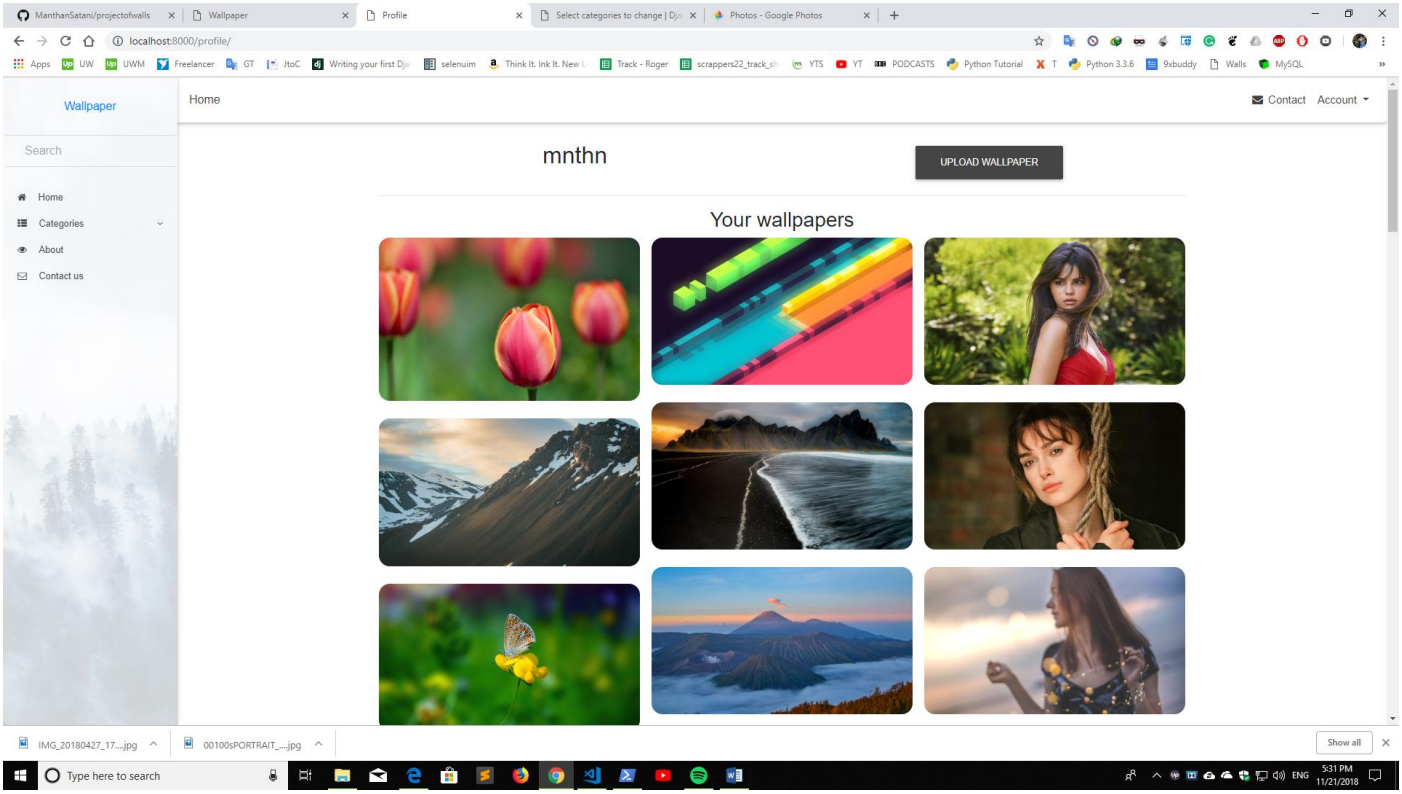
About


Wallpaper
Search
Home
Categories
About
Contact us
Home
Contact
Account
About
This website is a part of our study of MSc. IT & CA at Computer Science Department of the Saurashtra University Rajkot.
This project is developed to learn more about technologies that are used in it and the development procedure is nearly same as big companies. We went step by steps for this project first we came up with the idea and we determines the requirements and a lots of rough work and handmade designs after all look good we started development. Our team member Dhaval Purohit designed the frontend and Manthankumar Satani designed the database and backend coding. This websites may have some limitations and bugs due to less development time and basic knowledge of used technologies.
Technologies that are used in this development Github, Python 3.6, Django 2.06, HTML5, CSS3, MDB, JS JQuery
Git repository of project Wallpaper
The people who work for the project, share the vision and values.
We're driven by the idea that the best work is born from diligence, craftsmanship and fun.
Dhaval Purohit
Manthankumar Satani

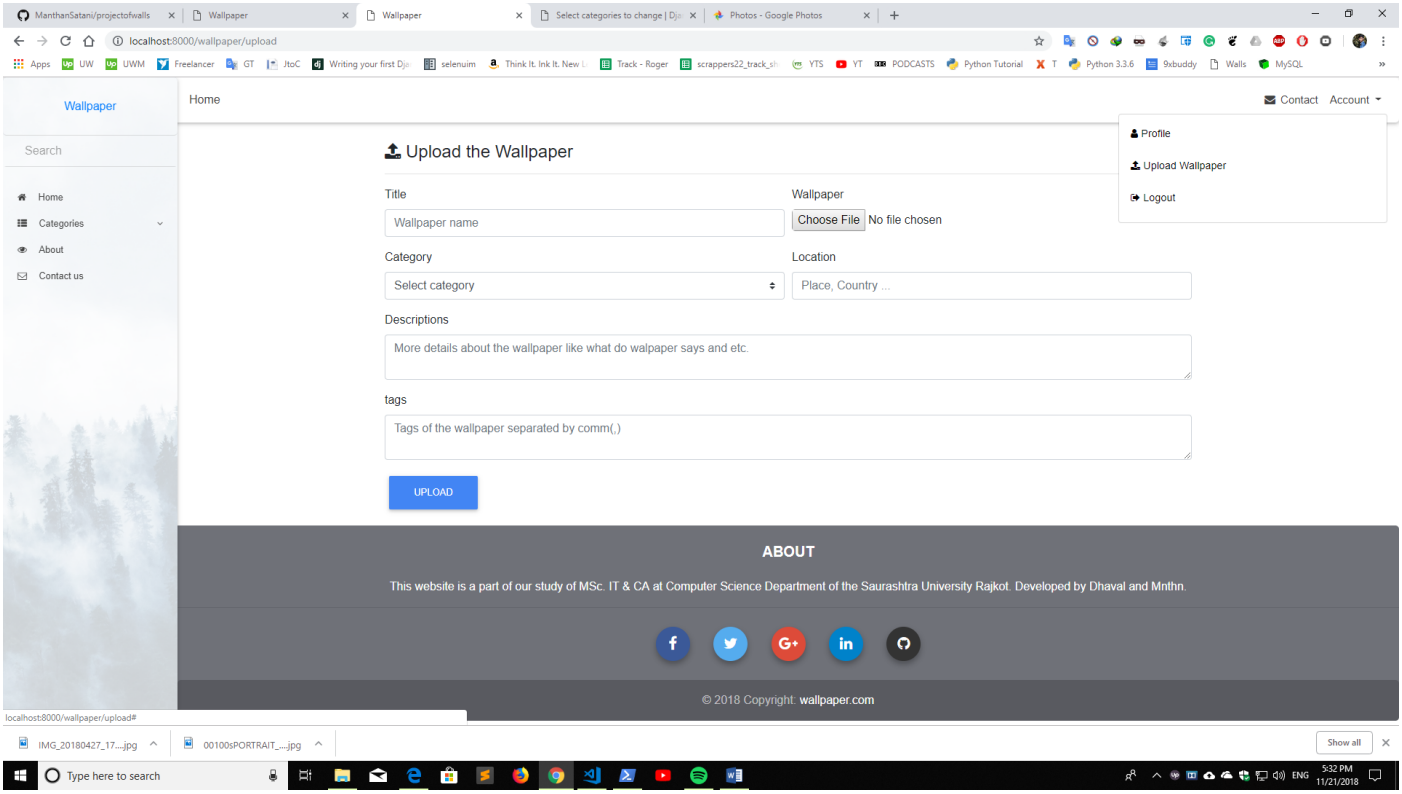
Contact Us


Wallpaper
Search
Home
Categories
About
Contact us
Home
Contact
Account
Contact us
Department of Computer Science
Saurashtra University,
Rajkot - 360 005
Gujarat, India
Feedback
Dhaval
someone@example.com
Detailed Feedback
SEND
ABOUT
This website is a part of our study of MSc. IT & CA at Computer Science Department of the Saurashtra University Rajkot. Developed by Dhaval and Mnthn.
© 2018 Copyright: wallpaper.com

User Profile

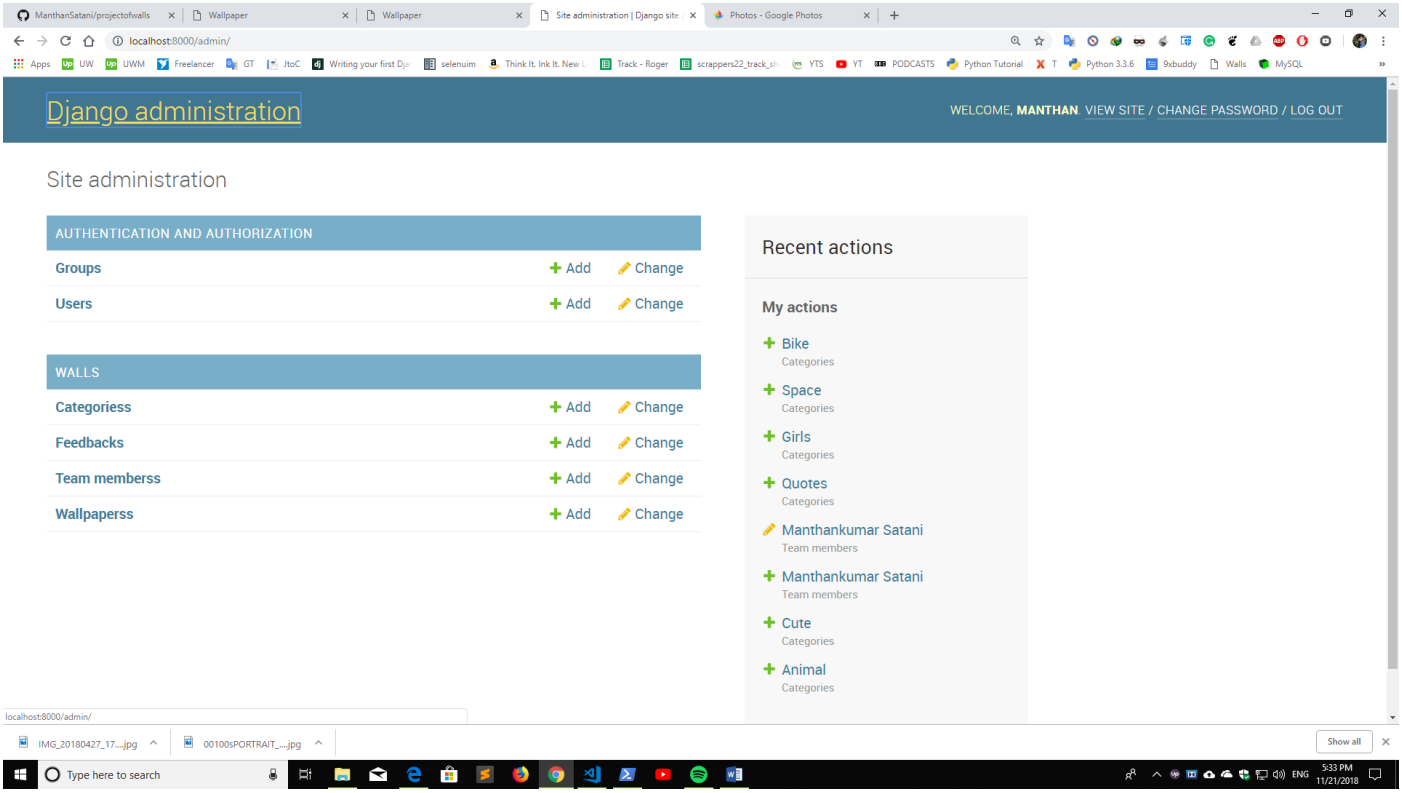


Upload Wallpaper

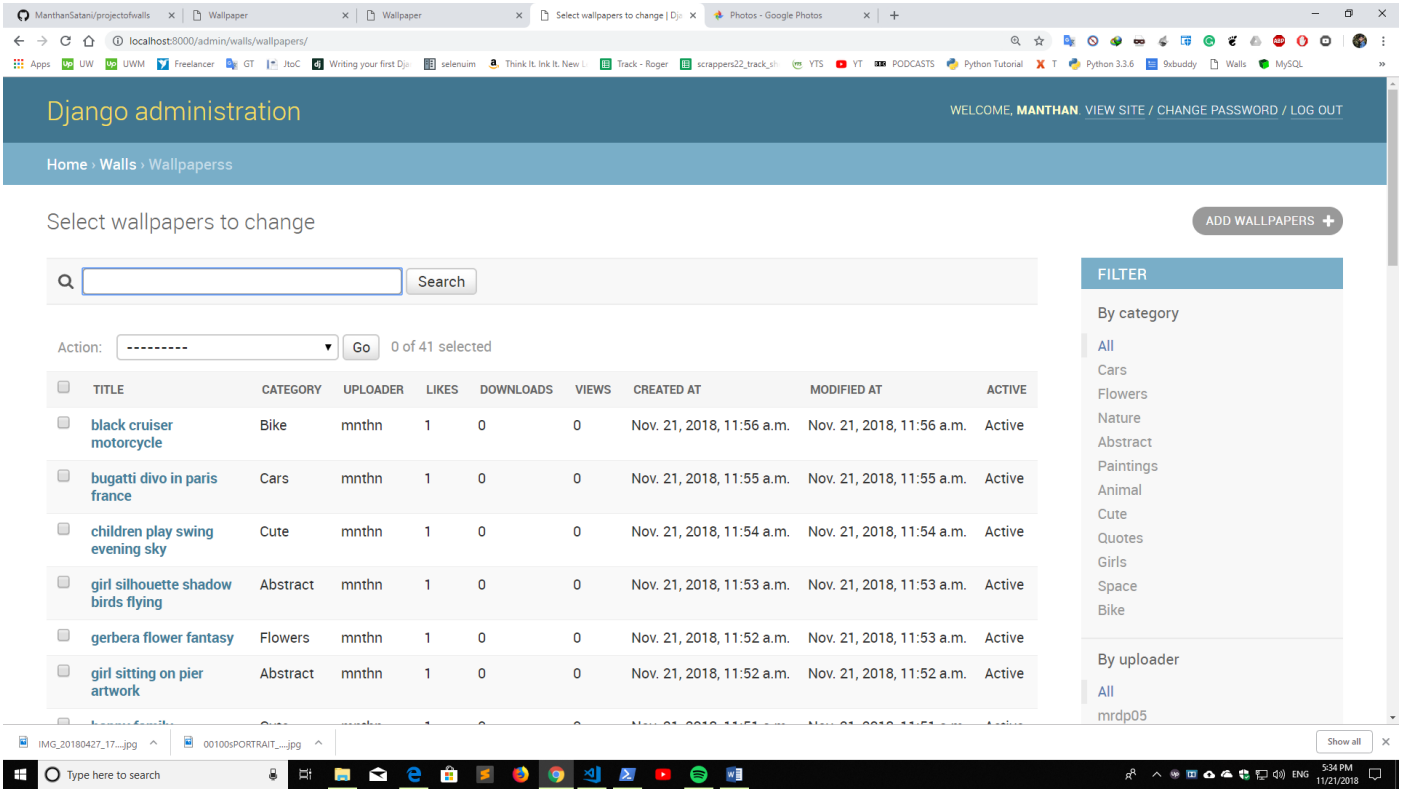


Admin

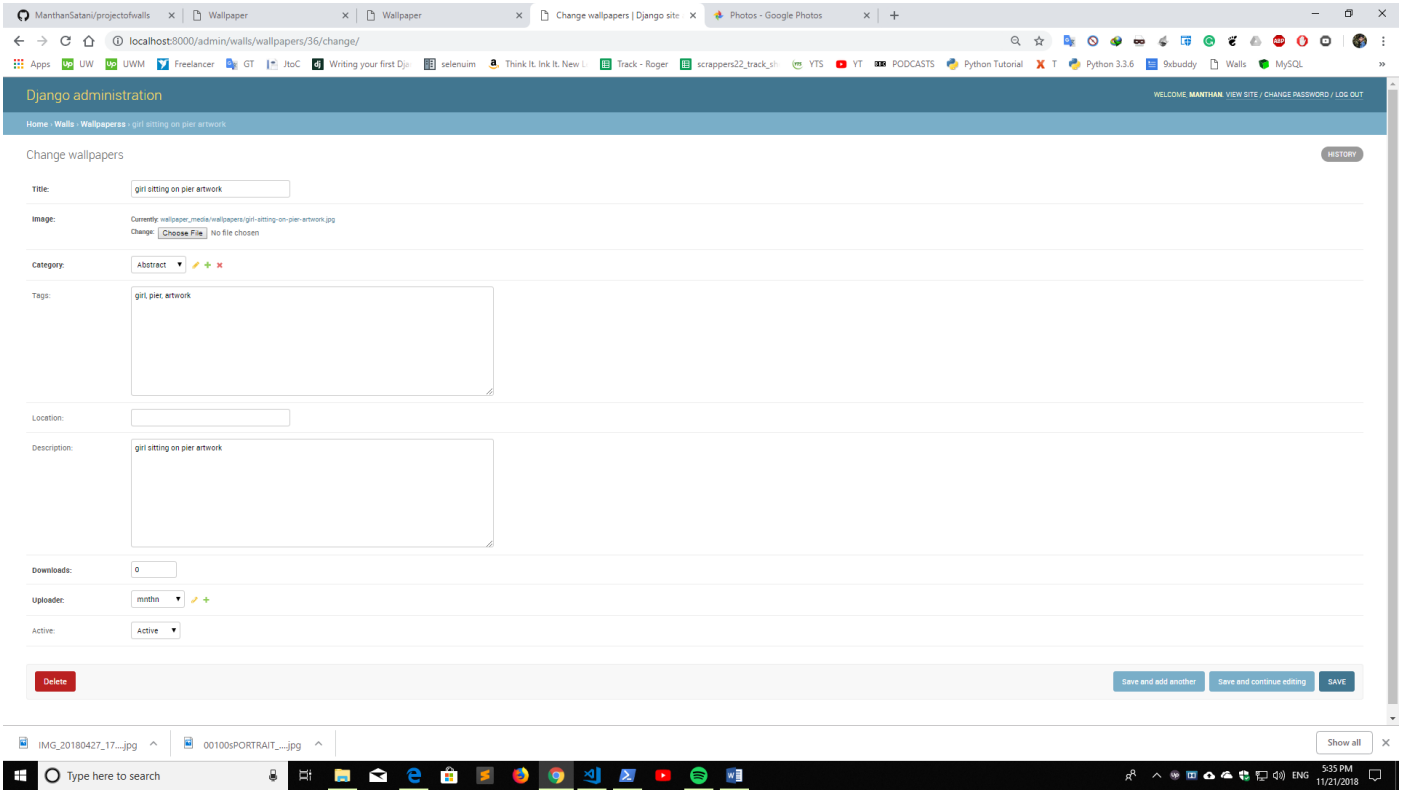
Home


Django administration
WELCOME, MANTHAN. VIEW SITE / CHANGE PASSWORD / LOG OUT
Site administration
AUTHENTICATION AND AUTHORIZATION
Groups + Add Change
Users + Add Change
WALLS
Categoriess + Add Change
Feedbacks + Add Change
Team memberss + Add Change
Wallpaperss + Add Change
Recent actions
My actions
+ Bike
Categories
+ Space
Categories
+ Girls
Categories
+ Quotes
Categories
Manthankumar Satani
Team members
+ Manthankumar Satani
Team members
+ Cute
Categories
+ Animal
Categories

Database Tables



Edit / Insert Record



Testing

There are different Models of testing. On the basis of testing methods there are two types of testing:

- White-box testing
- Black-box testing

Black-box tests are used to demonstrate that software functions are operational, that input is properly accepted and output is correctly produced, and that integrity of external information is maintained.

White-box tests are used to examine the procedural details. It checks the logical paths by test case. It can also checks the conditions, loops used in the software coding. It checks that loops are working correctly on defined boundary value.

1. White-box testing:

White-box testing sometimes called glass-box testing, is a test case design method that users the control structure of the procedural design to drive the test case.

Always we are thinking that there is no necessary to execute or checks the loops and conditions and so large number of errors is uncovered. In our coding we test that all the loops works truly in each module. The one technique of white-box testing is basis path testing. It contains two parts, one is flow graph notation and the second is cyclometer complexity. In flow graph notation we are checking logical control of flow. By using cyclometer complexity we find complexity of our project structure.

2. Black-box testing:

Black-box testing focuses on the functional requirements of the software. That is black-box testing enables the software engineer to drive sets of input conditions that will fully exercise all functional.

Requirements for the program, Black-box testing is not an alternative to white-box testing techniques. Rather, it is a complementary approach that is likely to uncover a different class of errors than white-box methods.

Limitations

The first limitation is user cannot remove or update the wallpaper after he/she uploaded it.

Conclusion

WALLPAPER is very useful website for all kind of peoples who do like a new desktop wallpaper every time.

It will bring new dimensions on managing wallpapers and showing them.

It’s very easy to use website.

It also gives information about the website purpose.

Bibliography

Web Site

- www.stackoverflow.com
- www.github.com
- www.djangoproject.com
- www.mdbootstrap.com
- www.getbootstrap.com