



Tech  News

Website

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Abstract

Tech News is a site specialized in technology news, it is directed to all people interested in technology and the latest developments and the most important new updates, the site will consist of several pages and will contain a content management system as well and will be built on the framework of Laravel. In this site, we used the Agile methodology and took several steps (chapter 1). I identified the challenges and the solutions. drew up the project construction timeline. Then, at (chapter 2), we collected the requirements for building the site and were collected by a questionnaire and then we identified the functional and non-functional requirements. Then we use all requirements to build use case and sequence diagram, and in (chapter 3) and took Data and we have created data then founded databases and tables of data and designed Screen to the site and we started implementing the project and used the language of PHP to build the site at (chapter 4) identified future business and the most important results that got it.

Chapter 1: Introduction

1.1 Introduction

Tech News is a site specialized in technology news, it is directed to all people interested in technology and the latest developments and the most important new updates.

1.2 System Goals

The goal of building the site is to:

1. make everyone interested in technology
2. able to access the latest news with ease and speed
3. save time instead of entering other news sites and searching for a long time on technology news, which may be greatly summarized and not accurate.

1.3 Feasibility Study

1.3.1 Challenges

1. Few people interested for Technology.
2. A lot of site tells fake news.

1.3.2 Proposed Methods

1. Make people more interested to read Technology New.
2. Get real News.
3. Make Technology More fun

1.4 The Method Adopted in The Design of The System

1. Object-oriented design includes two main stages, namely, system.
2. System Design: System Design: In this stage, the complete architecture of the desired system is designed. The system is conceived as a set of interacting subsystems that in turn is composed of a hierarchy of interacting objects, grouped into classes.
3. System design is done according to both the system analysis model and the proposed system architecture.

1.5 Gantt Chart

Table 1 Tasks vs Time

| Task | Duration | Start Date | Finish Date |
|--|-----------------|-------------------|--------------------|
| Introduction problem study, general objectives, description of the current system, proposed system | 2d | 1/12/2019 | 3/12/2019 |
| Analysis gather information (System Requirements, System Use Case Diagram) | 3d | 4/12/2019 | 07/12/2019 |
| Screen Design (define the layers) | 4d | 08/12/2019 | 12/12/2019 |
| Data Base Design: Normalization, ERD, database tables | 4d | 13/12/2019 | 17/12/2019 |
| Implement code and solve the problem (write code) | 20d | 18/12/2019 | 8/01/2020 |
| Testing [white & black] Box | 10d | 8/01/2020 | 18/01/2020 |

1.5.1 Analyze & Requirement

In the first week I analyze and gather information to gather requirements, starting date at 1/12/2019, and we end the task at 07/12/2019, with duration 3 days.

1.5.2 Screen Design and Data Base

1. In the second week select the date information and GUI
 - a. Class diagram
 - b. Data Base Table design and Normalization
 - c. Mock up design
2. Starting date at 4/12/2019, end this task at 12/12/2019, with duration 8 days.

1.5.4 Implement code

Laravel with ,MySQL , with duration from start's at 18/12/2019 to 8/01/2020.

1.5.5 Testing

Test the program [white Box & black Box], we starting to but our system in testing mode with duration from 8/01/2020 to 15/01/2020.

1.5.6 Graph

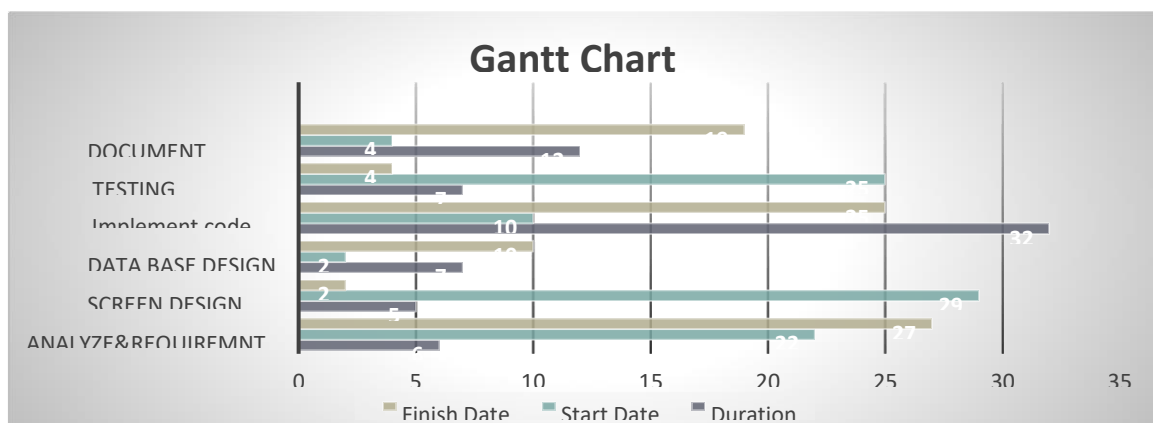


Figure 1 Time Line of the Project

Chapter 2: Requirement

2.1 Analysis

Requirements analysis, also called requirements engineering, is the process of determining user expectations for a new or modified product. These features, called requirements, must be quantifiable, relevant and detailed. In software engineering, such requirements are often called functional specifications. Requirements analysis is an important aspect of project management.

Requirements analysis involves frequent communication with system users to determine specific feature expectations, resolution of conflict or ambiguity in requirements as demanded by the various users or groups of users, avoidance of feature creep and documentation of all aspects of the project development process from start to finish. Energy should be directed towards ensuring that the final system or product conforms to client needs rather than attempting to mold user expectations to fit the requirements.

2.1.1 User Requirement

This field of indoor and outdoor maintenance and all services with just one click with entering the problem (The main features:)

A-Front Web Site:

1. Login and register page for new user or author
2. Home page to show all news
3. Category Page Have all type of news
4. Details News page to show news in details

B-Back Web site:

1. Admin page to control of web site
2. Permission page
3. Roles Page
4. Authors Page
5. Category's Page
6. Posts Page
7. Admin Sitting Page

2.2.1 Functional requirement

1. log in / register page: make admin and blogger, editors' access to Web Site.
2. Dashboard page to control of web site
3. Home page to show all category and posts

4. List page to show specific category
5. Details page to details news
6. Author's Page to show all article's posts by Authors

2.2.2 Non-Functional Requirement

1. External Requirement

- a. The web site has Admin to check and publish the News.
- b. The blogger and Editor can add posts and update posts.
- c. The Admin has permission to delete News

2. Organizational Requirement

- a. Require any OS (such as Windows (XP, 7, 8.1, 10) Linux and Mac). Etc.
- b. Web browser (chrome, Firefox, Opera, Explorer).
- c. Connected to the Internet.
- d. To Program Web pages we use a Laravel and connect them with database MySQL, Web pages CSS, Html, bootstrap and use protected PHP md5.

3. Product Requirement

- a. Site speed is linked to the speed Net Lowes Third generation network limit.
- b. duration of access be the Internet speed of 10 seconds to a minute.
- c. needs for memory by device if it is a computer 512 MB minimum, phone 265 MB.
- d. no need for storage capacity, it's only needs Internet connection and mobile phone or a computer.
- e. user protection system md5.
- f. the failure rate is very low if maintenance team failed righteousness immediately.
- g. The system must be able to work at any time through its design as the site can access all connected on the Web.
- h. The system must have High speed to be able to perform the tasks required of it and that use software to build a high quality and efficient: Laravel 5.8, MySQL Server.
- i. flexibility and easily add new user and determine his powers, Easy adjustment on current user's privileges.

2.2.3 *System requirement*

1. The web site must be compatible with pc's and mobiles devises.
 - To achieve all these functions a computer or mobile devise must be available and connected to the internet.
 - The version or model of the device does not matter, but defiantly needs at least a web browser.

2. Programming languages used
 - HTML (Hyper Text Markup Language) is the most basic building block of the Web.
 - CSS is a language that describes the style of an HTML document.
 - JavaScript (JS) is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions.
 - PHP is a popular general-purpose scripting language that is especially suited to web.
 - Laravel is a free, open-source PHP web framework, created by Taylor Otwell and intended for the development of web applications.
 - MySQL is an open-source relational database management system (RDBMS).
 - PDO_MYSQL is a driver that implements the PHP Data Objects (PDO) interface to enable access from PHP to MySQL databases.

2.3 Use Case Description

1. Actors:

a. Human actors: Admin, Editors, Bloggers.

| | |
|-----------------------------|---|
| Use case Number | UC - 01 |
| Use case name | Browsing |
| Participation actor | 1. User 2. Admin 3. Bloggers 4. Editors |
| Pre-condition | Internet connection |
| Flow of events | 1. Open web site 2. Browse the web site |
| Post-condition | Retrieving, presenting and traversing information resources |
| Quality Requirements | Speed site browsing |

Table 2 UC-01 Browsing

| | |
|-----------------------------|--|
| Use case Number | UC - 02 |
| Use case name | sign up for Users |
| Participation actor | 1. Bloggers, Editors |
| Pre-condition | Internet connection, e-mail or phone number |
| Flow of events | 1. open website 2. click on sign up 3. insert information 4. check information 5. send to server |
| Post-condition | user confirmation |
| Quality Requirements | 1. If the user entered an incorrect username and password. 2. Show error messages: sign up fails. |

Table 3 UC-02 sign up for Client

| | |
|-----------------------------|---|
| Use case Number | UC - 03 |
| Use case name | Add post |
| Participation actor | 1. Admin 2. Bloggers 3. Editors |
| Pre-condition | Permission roles access |
| Flow of events | 1. Go to dashboard 2. Click on posts 3. Click on Create posts 4. Insert all data |
| Post-condition | Admin publish posts |
| Quality Requirements | 1. Just admin has all permission |

Table 4 UC-03 sign up for Technician

2.3.1 Use Case Diagram

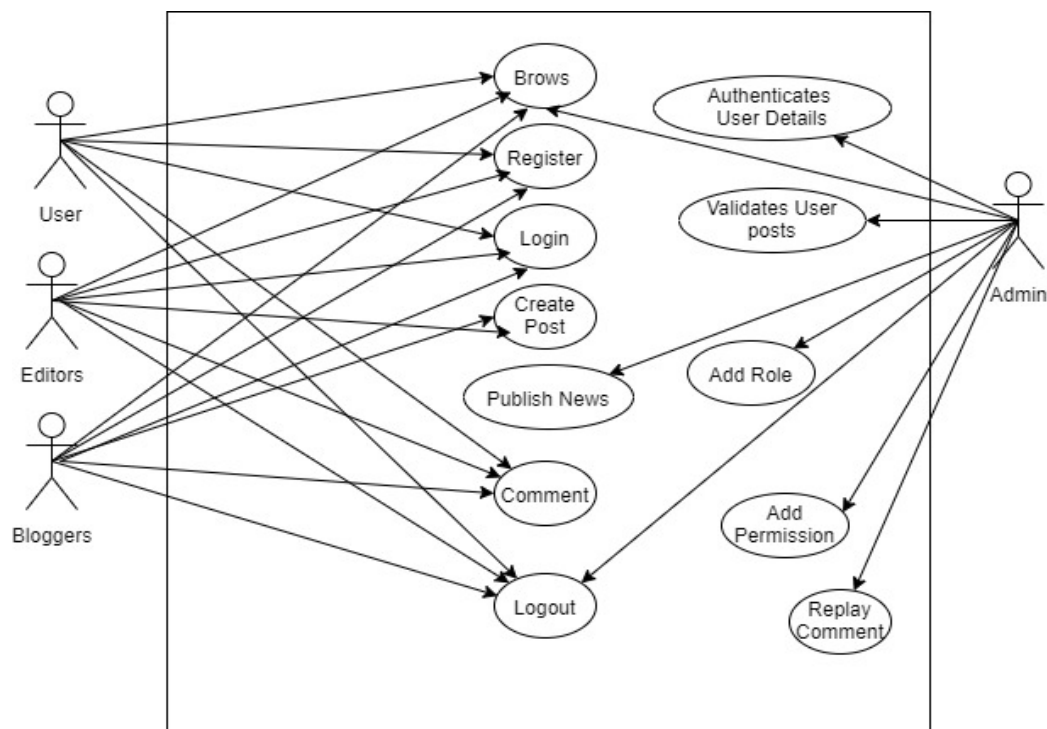


Figure 2 Use Case Diagram

2.3.2 Activity Diagram

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams are intended to model both computational and organizational processes. Activity diagrams show the overall flow of control.

1. Activity Diagram for Browsing

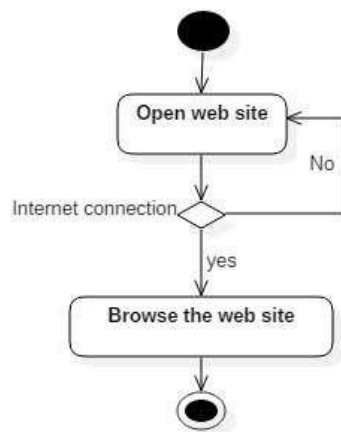


Figure 3 Activity Diagram Browsing

2. Activity Diagram for sign up for Client

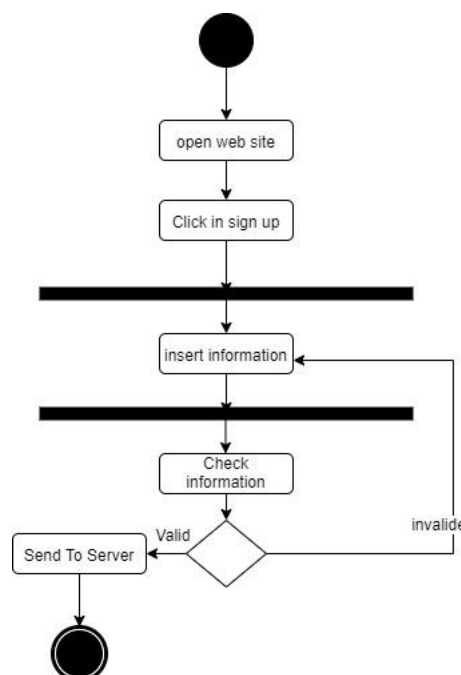


Figure 4 Activity Diagram for sign up for Users

3. Activity Diagram for Create Post

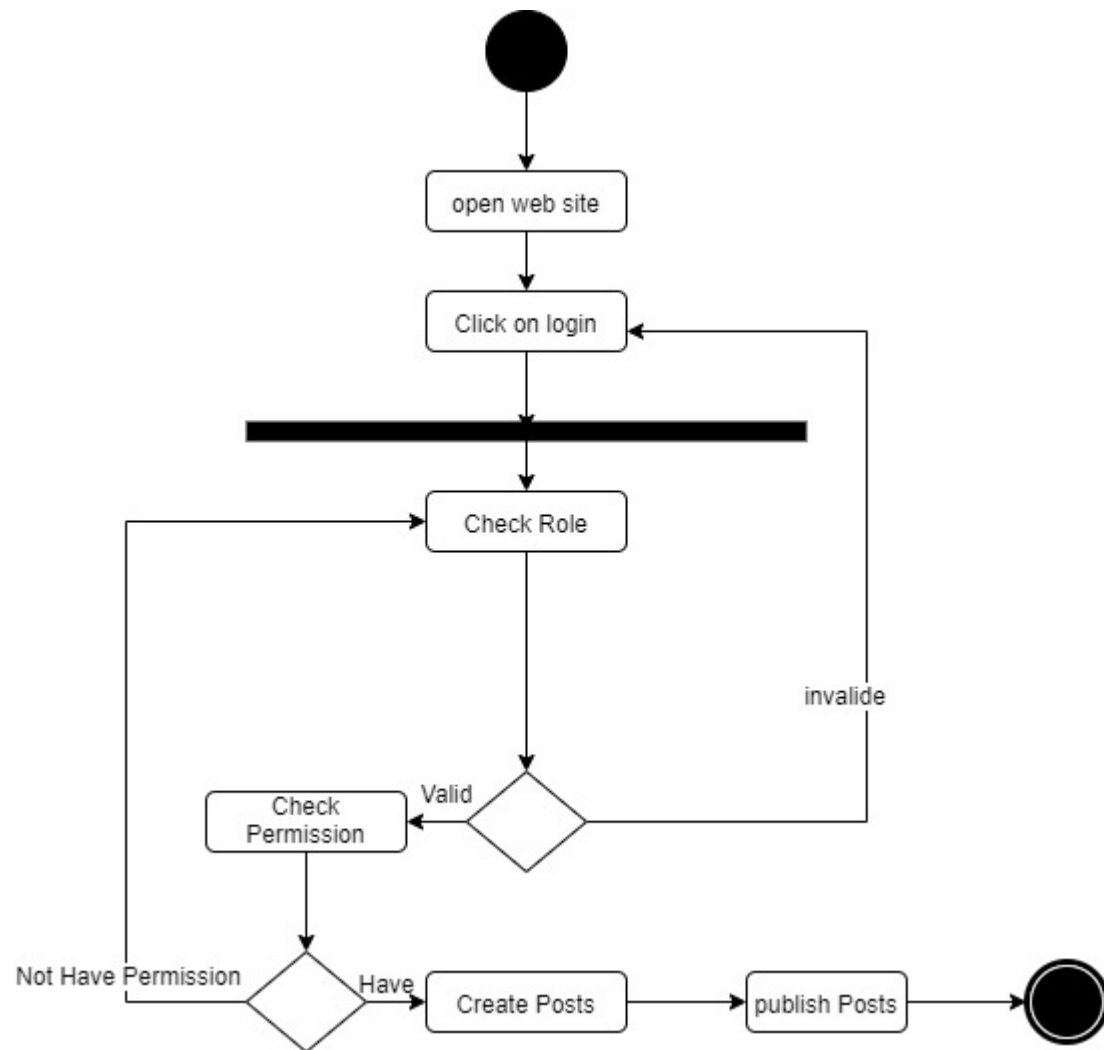


Figure 5 Activity Diagram for Create Posts

Chapter 3: Design

In this chapter, the requirements and analysis in the previous chapter will be converted into a physical model of the system, illustrating the aspects of system structure design and database design, ("What to do" requirements to "How to do" design).

3.1 Class diagram

In software engineering, a class diagram in the Unified Modeling Language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among objects.

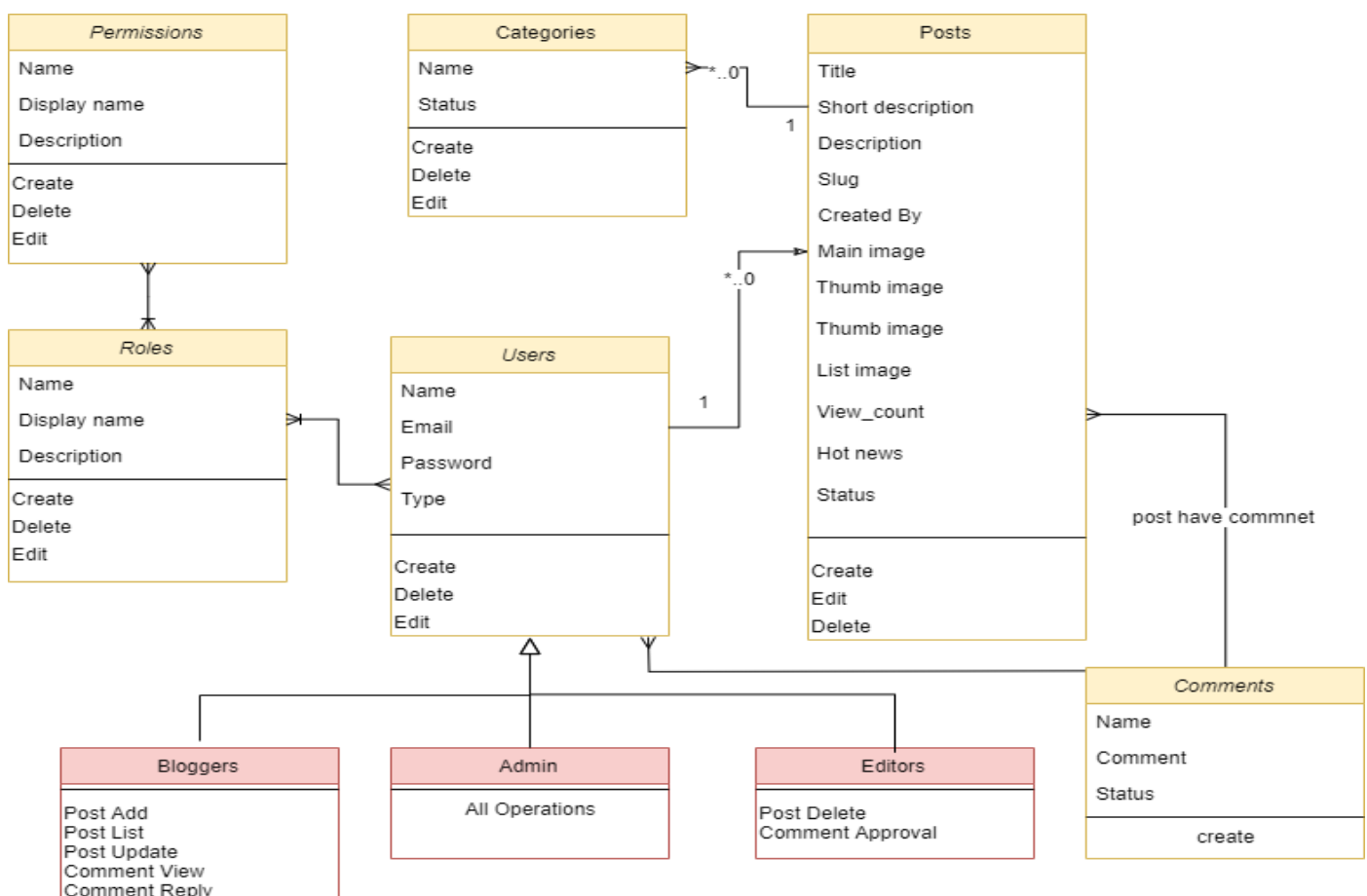


Figure 6 Class diagram

3.1 Data Base Tables

Data Base: Table Users

| Data Name | Type |
|--------------------------|----------------|
| Id | big Increments |
| Name | String |
| Email | String |
| email_verified_at | timestamp |
| Password | String |
| Type | integer |

Data Base: Table Permission

| Data Name | Type |
|---------------------|----------------|
| Id | big Increments |
| Name | String |
| Display Name | String |
| Description | String |

Data Base: Table Role

| Data Name | Type |
|---------------------|----------------|
| Id | big Increments |
| Name | String |
| Display Name | String |
| Description | String |

Data Base: Table categories

| Data Name | Type |
|---------------|----------------|
| Id | big Increments |
| Name | String |
| Status | integer |

Data Base: Table Posts

| Data Name | Type |
|--------------------------|----------------|
| Id | big Increments |
| Title | String |
| Short Description | Long Text |
| Slug | String |
| Created by | integer |
| Main image | String |

| | |
|--------------------|---------|
| Thumb image | String |
| List image | String |
| View Count | Integer |
| Hot News | Integer |
| Status | integer |

3.3 Normalization

Data required by Tables with relations:

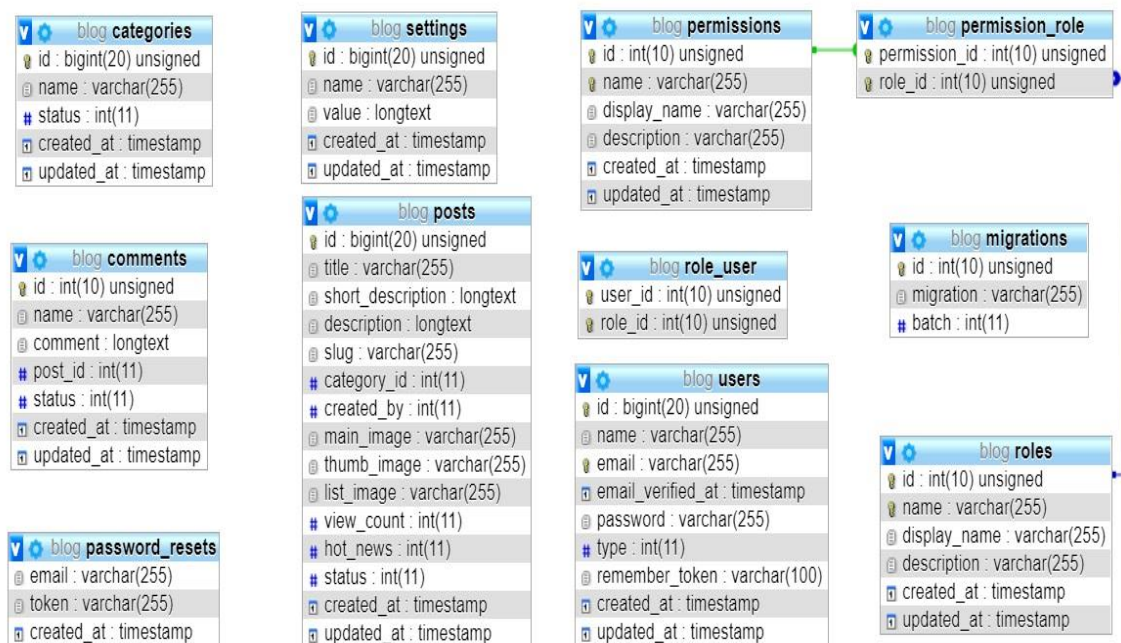


Figure 7 Normalization

3.4 Mock-ups

Is a design work for website design screen?

Website Mock-ups

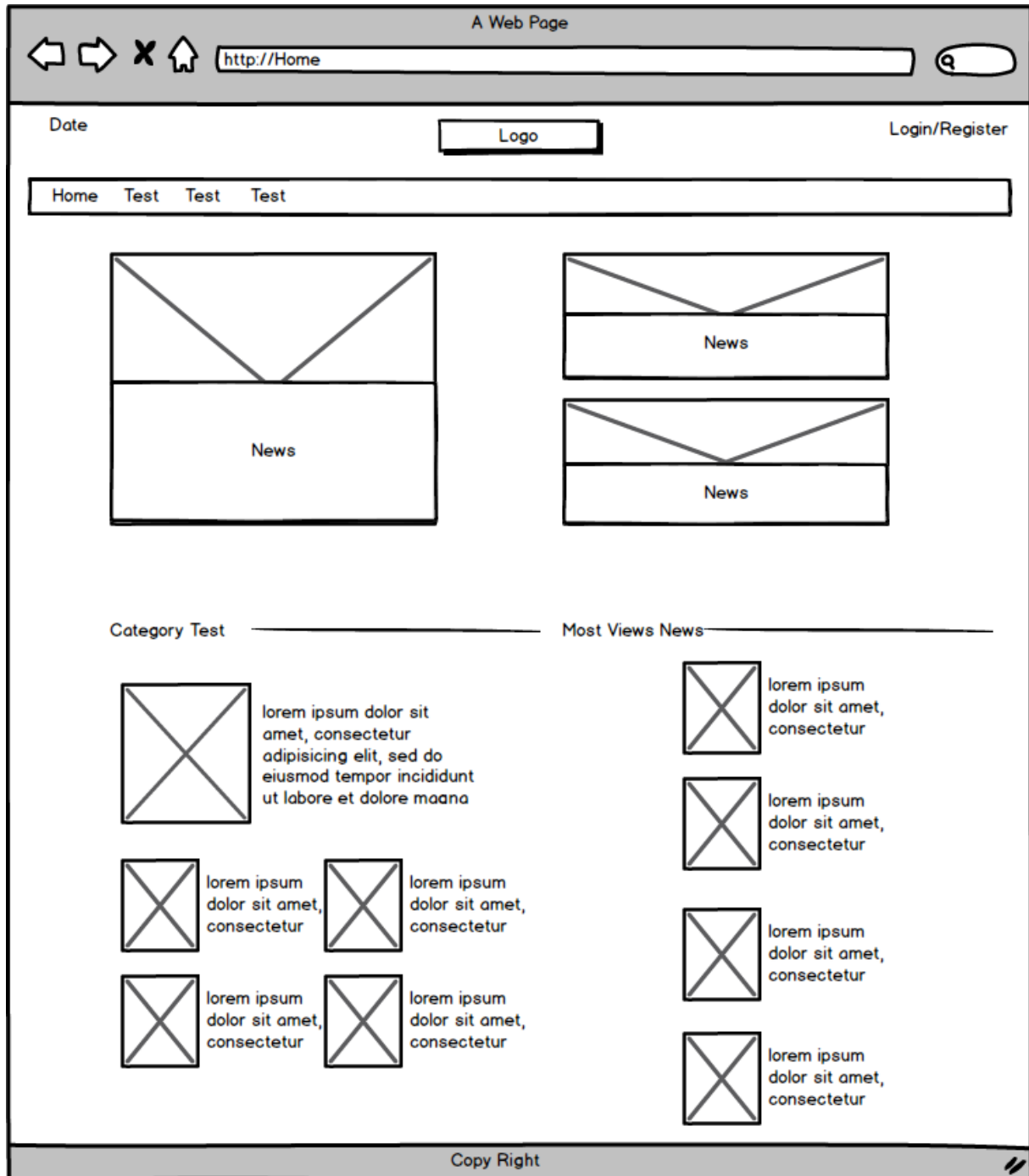


Figure 8 Home Page

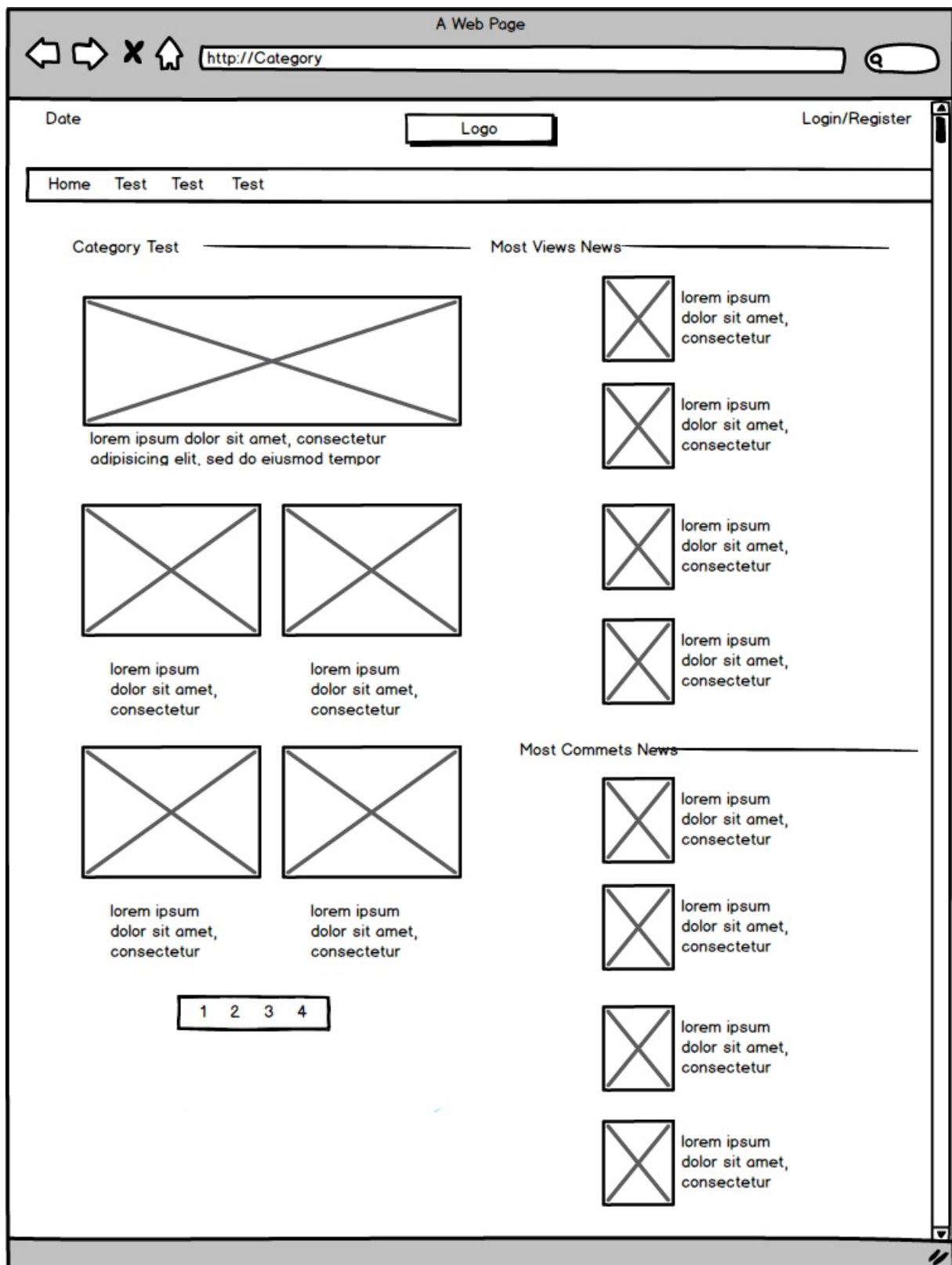


Figure 9 Category Page

A Web Page
http://Details

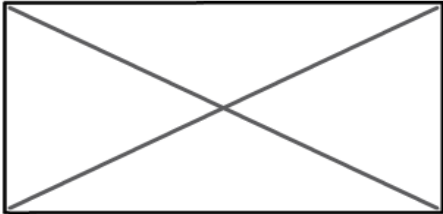
Date

Logo

Login/Register


Home
Test
Test
Test


Details News





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adipiscing elit, sed do eiusmod tempor
incididunt ut labore et dolore magna aliqua. Ut
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Most Views News



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consectetur

Readers Comment


lorem ipsum dolor sit amet,
consectetur adipiscing elit, sed do


lorem ipsum dolor sit amet,
consectetur adipiscing elit, sed do

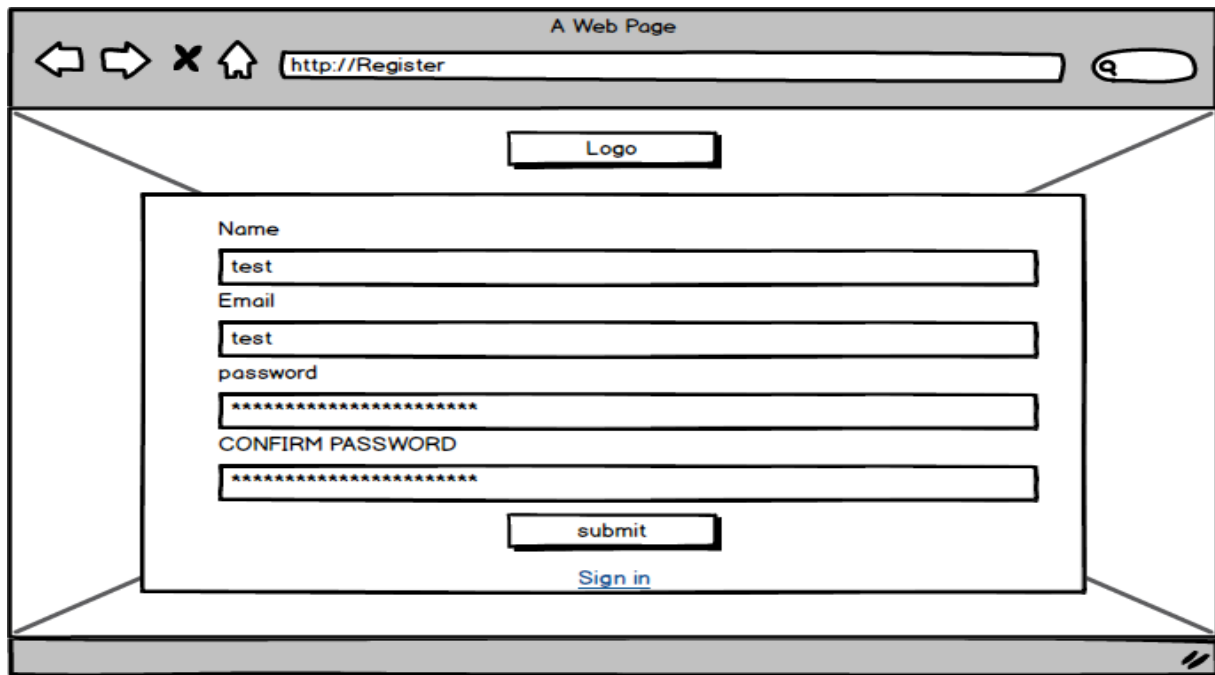
Add Comment

Name

Comment

Submit

Figure 10 Details Page



A Web Page

http://Register

Logo

Name
test

Email
test

password

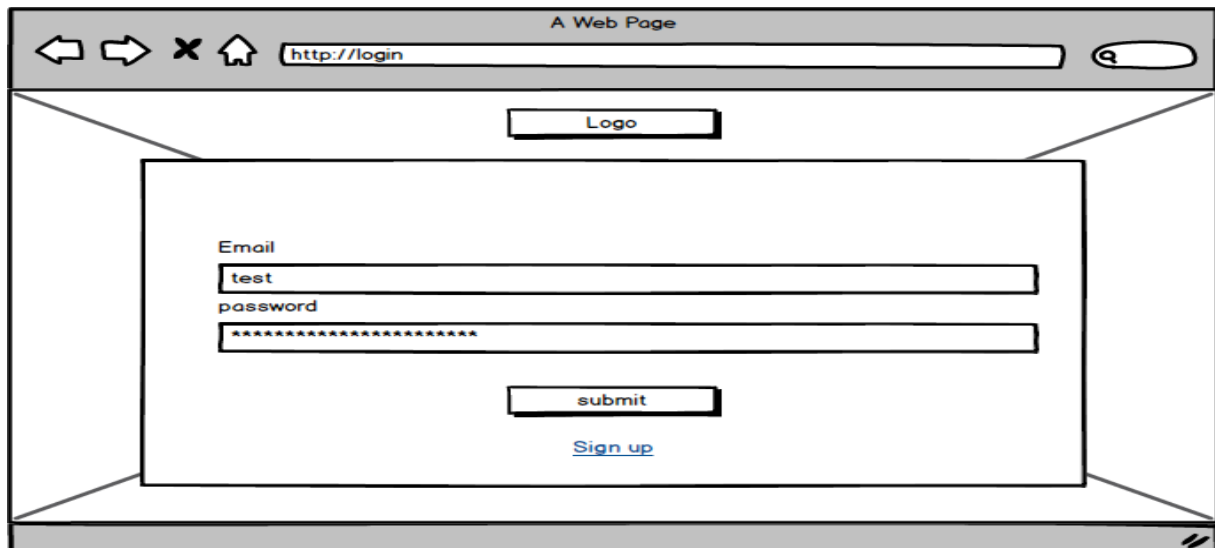
CONFIRM PASSWORD

submit

[Sign in](#)

This screenshot shows a web browser window titled "A Web Page" with the address bar displaying "http://Register". The page layout includes a "Logo" button at the top center. Below it is a registration form with four input fields: "Name" (containing "test"), "Email" (containing "test"), "password" (containing "*****"), and "CONFIRM PASSWORD" (containing "*****"). A "submit" button is located below the password fields, and a blue link "Sign in" is positioned at the bottom of the form area.

Figure 11 Register Page



A Web Page

http://login

Logo

Email
test

password

submit

[Sign up](#)

This screenshot shows a web browser window titled "A Web Page" with the address bar displaying "http://login". The page layout includes a "Logo" button at the top center. Below it is a login form with two input fields: "Email" (containing "test") and "password" (containing "*****"). A "submit" button is located below the password field, and a blue link "Sign up" is positioned at the bottom of the form area.

Figure 12 Login Page

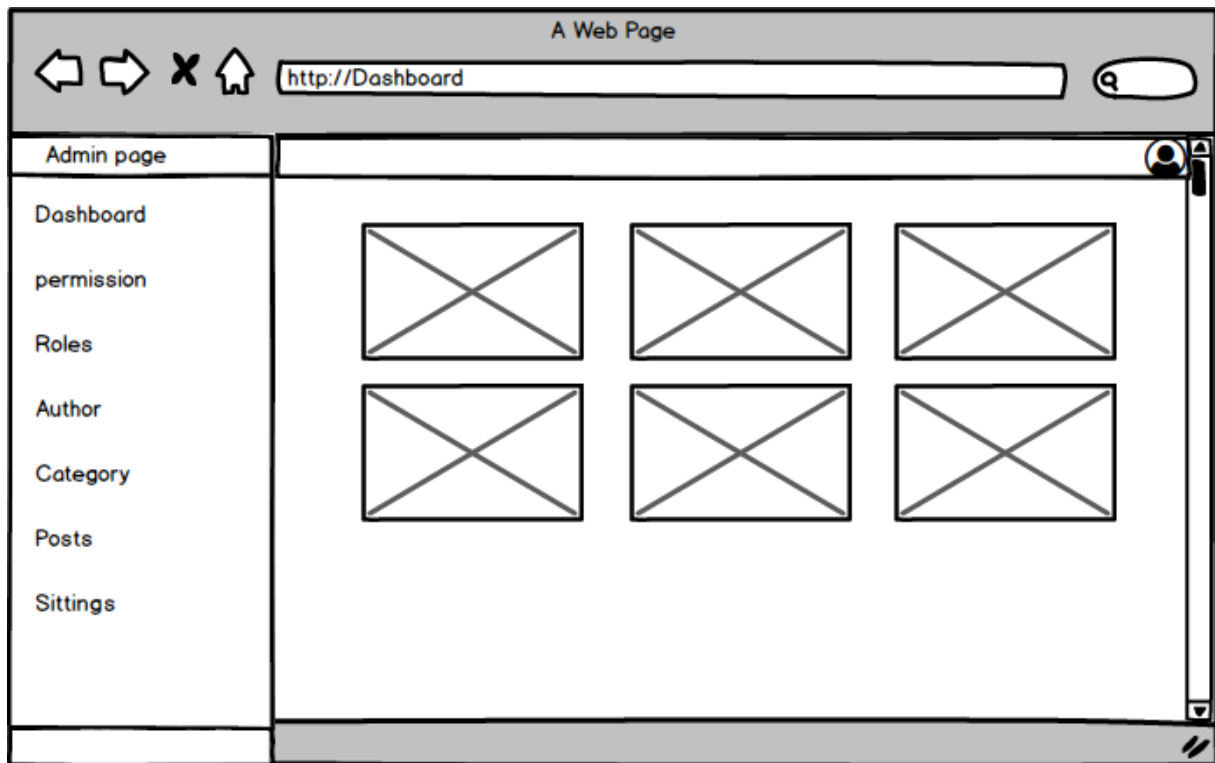


Figure 13 Dashboard Page

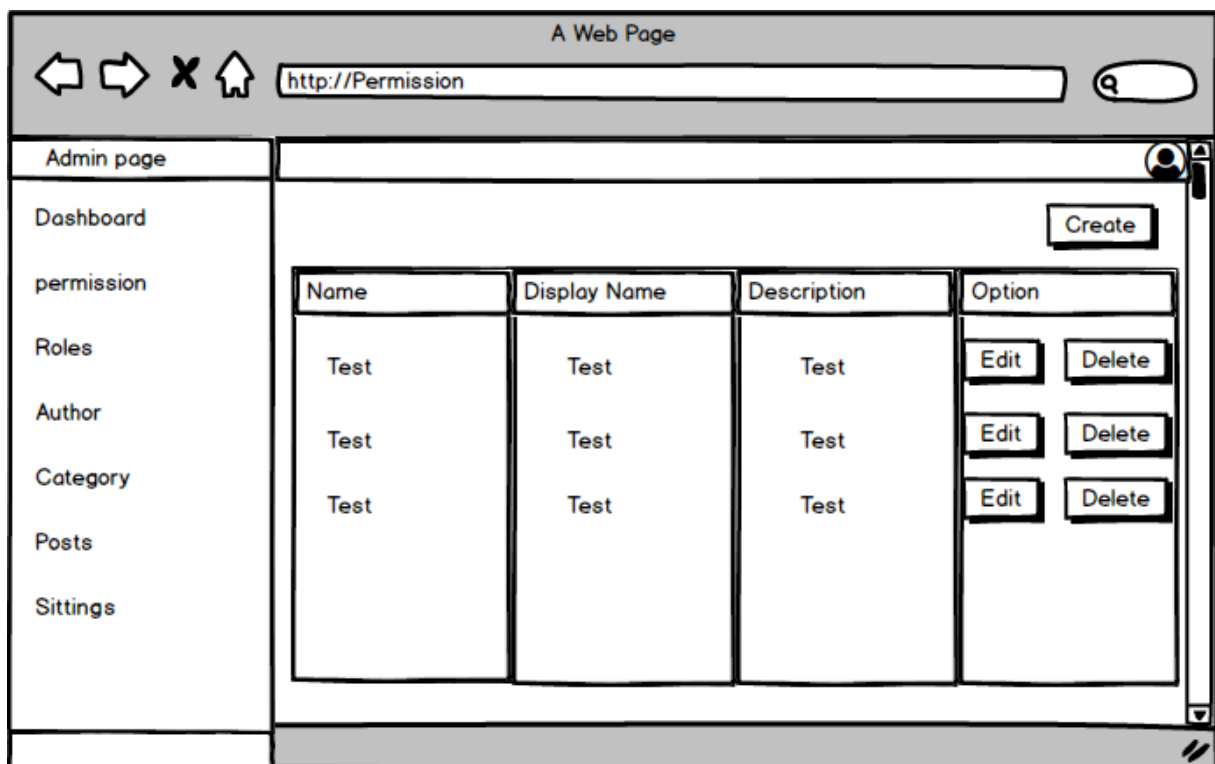


Figure 14 permission Page

A Web Page

http://Permission/Edit

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sittings

Permission Edit

Name

Dispaly name

Description

Submit

Figure 15 permission Edit Page

A Web Page

http://Permission/Create

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sittings

Permission Create Page

Name

Display Name

Description

Submit

Figure 16 Edit Page

A Web Page

http://Roles/Create

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sitings

Roles Create Page

Name

Display Name

Description

Permission

Item One

Item Two

Item Three

Submit

Figure17 Roles Edit Page

A Web Page

http://Roles

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sitings

Create

| Name | Display Name | Description | Permission | Option |
|------|--------------|-------------|------------|-------------|
| Test | Test | Test | Test | Edit Delete |
| Test | Test | Test | Test | Edit Delete |
| Test | Test | Test | Test | Edit Delete |

Figure 18 Roles Page

A Web Page

http://Roles/Create

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sitings

Roles Update Page

Name

Display Name

Description

Permission

Item One

Item Two

Item Three

Update

Figure 19 Roles create Page

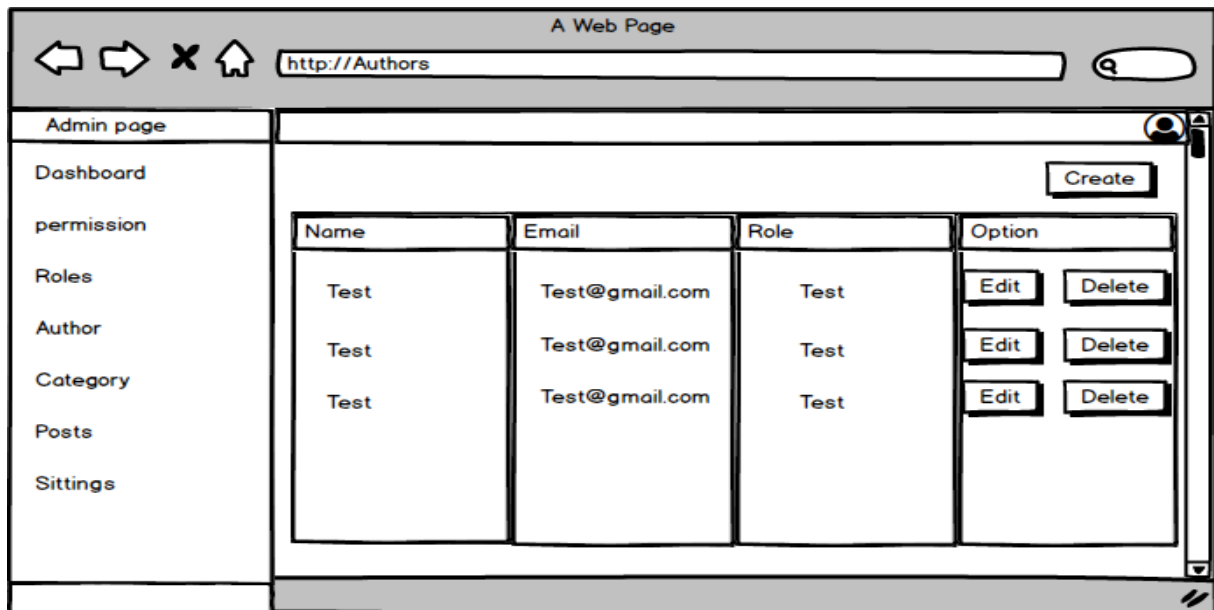


Figure 20 Authors Page

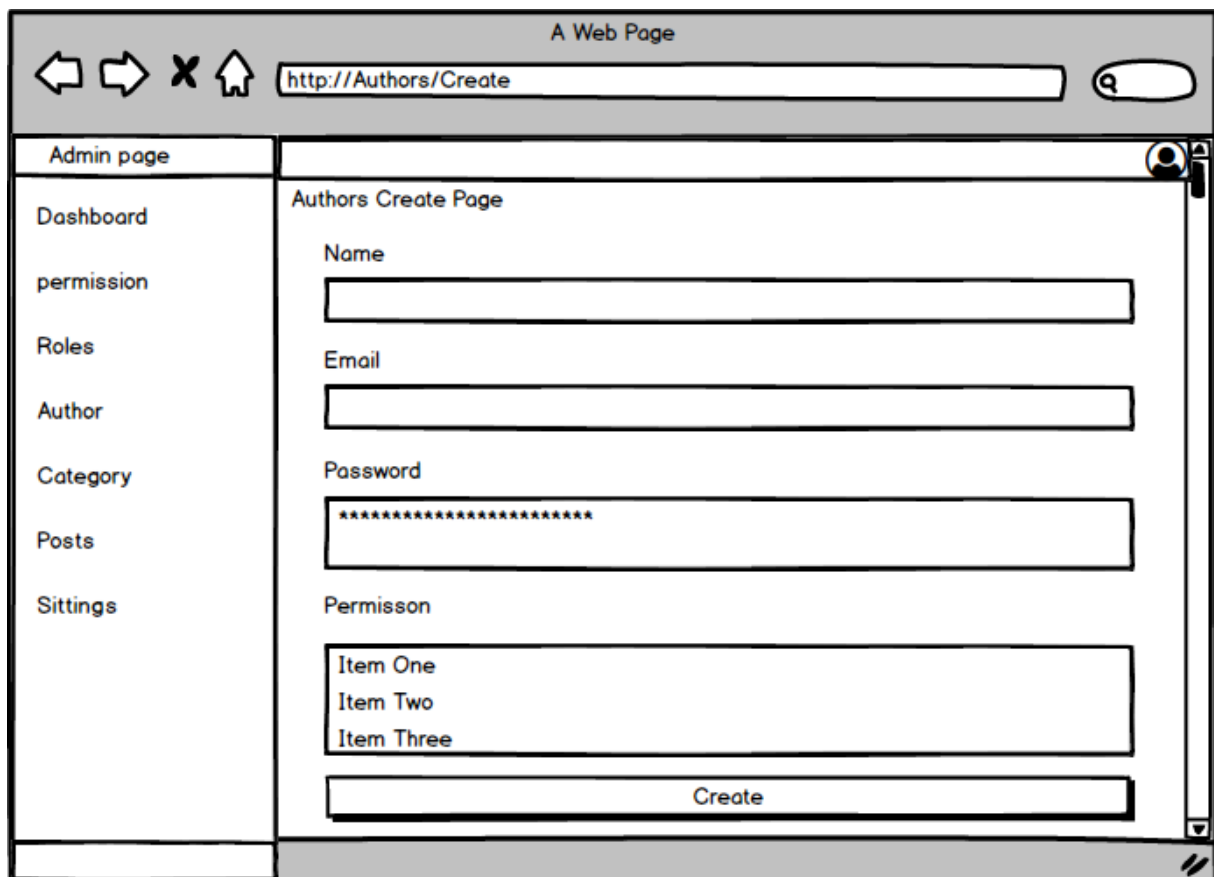


Figure 20 Authors create Page

A Web Page

http://Authors/edit

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sittings

Authors Edit Page

Name

Email

Password

Permission

Item One

Item Two

Item Three

update

Figure 21 Authors Edit Page

Figure 22 Category create Page

A Web Page

http://Category/Create

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sittings

Category Create

Name

Submit

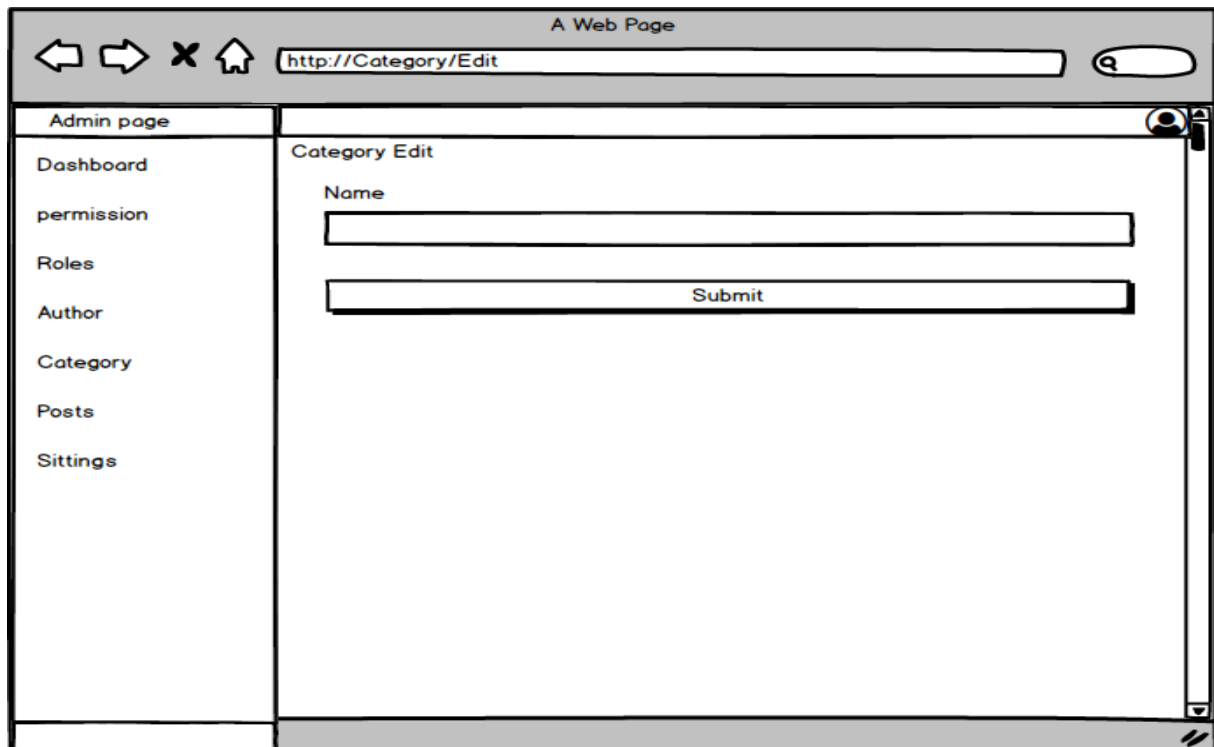


Figure 23 Category Edit Page

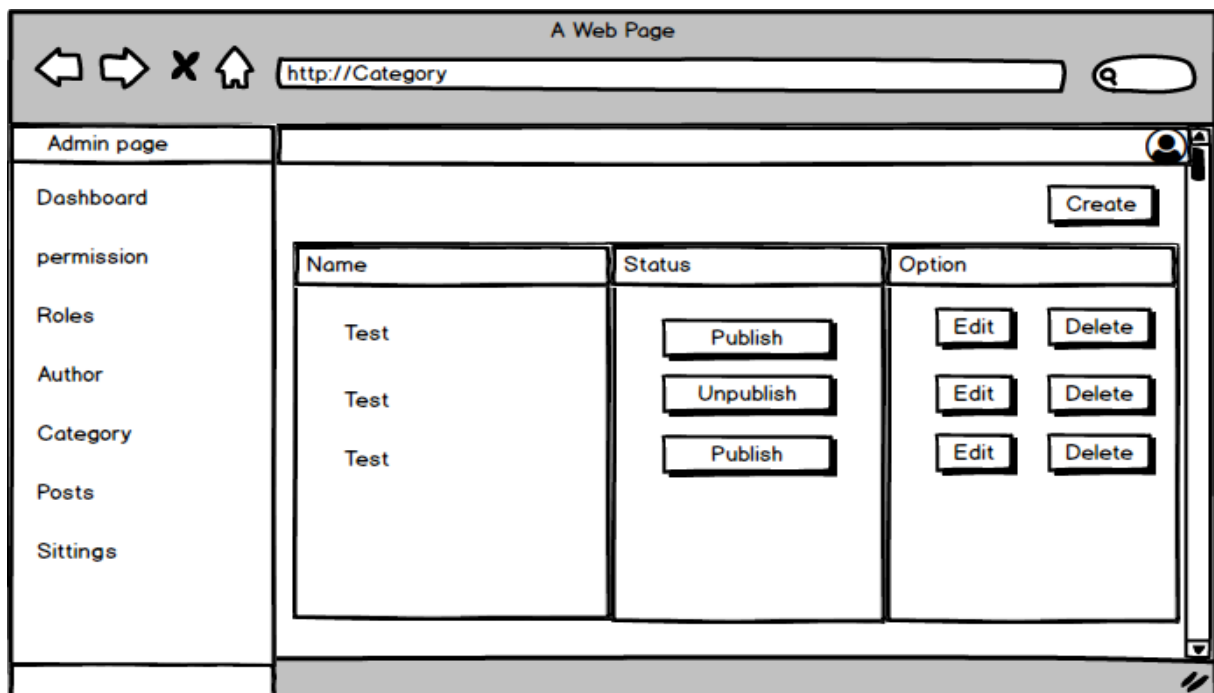


Figure 24 Category Page

A Web Page

http://post/create

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sittings

Posts Create page

Title

Category

Short description

Description

image

Choose File

Submit

Figure 25 post create Page

A Web Page

http://Posts

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sittings

Create

| img | Title | Authors | View | Status | HotNei | Option |
|-----|-------|---------|------|-----------|--------|---------------------|
| | Test | Test | 0 | Publish | Yes | Comment Edit Delete |
| | Test | Test | 0 | Unpublish | No | Comment Edit Delete |
| | Test | Test | 0 | Publish | Yes | Comment Edit Delete |

Figure 26 post Page

A Web Page

http://post/Edit

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sittings

Posts Edit page

Title

Category

Short description

Description

image

Choose File

Submit

Figure 27 post Create Page

A Web Page

http://sittings

Admin page

Dashboard

permission

Roles

Author

Category

Posts

Sittings

System Name

Favicon

Choose File

Front Logo

Choose File

Admin Logo

Choose File

Updateae

Figure 28 Sitting Page

Chapter 4: Result & Recommendation

When project finish

Reference

- 1- <https://laravel.com/docs/6.x>
- 2- <https://laracasts.com/>
- 3- <https://stackoverflow.com/>
- 4- <https://github.com/>
- 5- <https://www.php.net/docs.php>
- 6- <https://www.wikipedia.org/>