Content Management Blog

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Introduction

Technology used: Intellij , VSC , NetBeans,Mysql, ClearDB, Spring Framework, Github repo, Heroku

User requirements: - Clients wants to display their blog posts to everyone who comes to their site.

- Clients wants to create and insert tags related to their blogs

- Clients wants to editors to manage their blogs.

- Clients wants to write posts in an editor like Word.

- Clients wants exclusive rights to approve edited blogs.

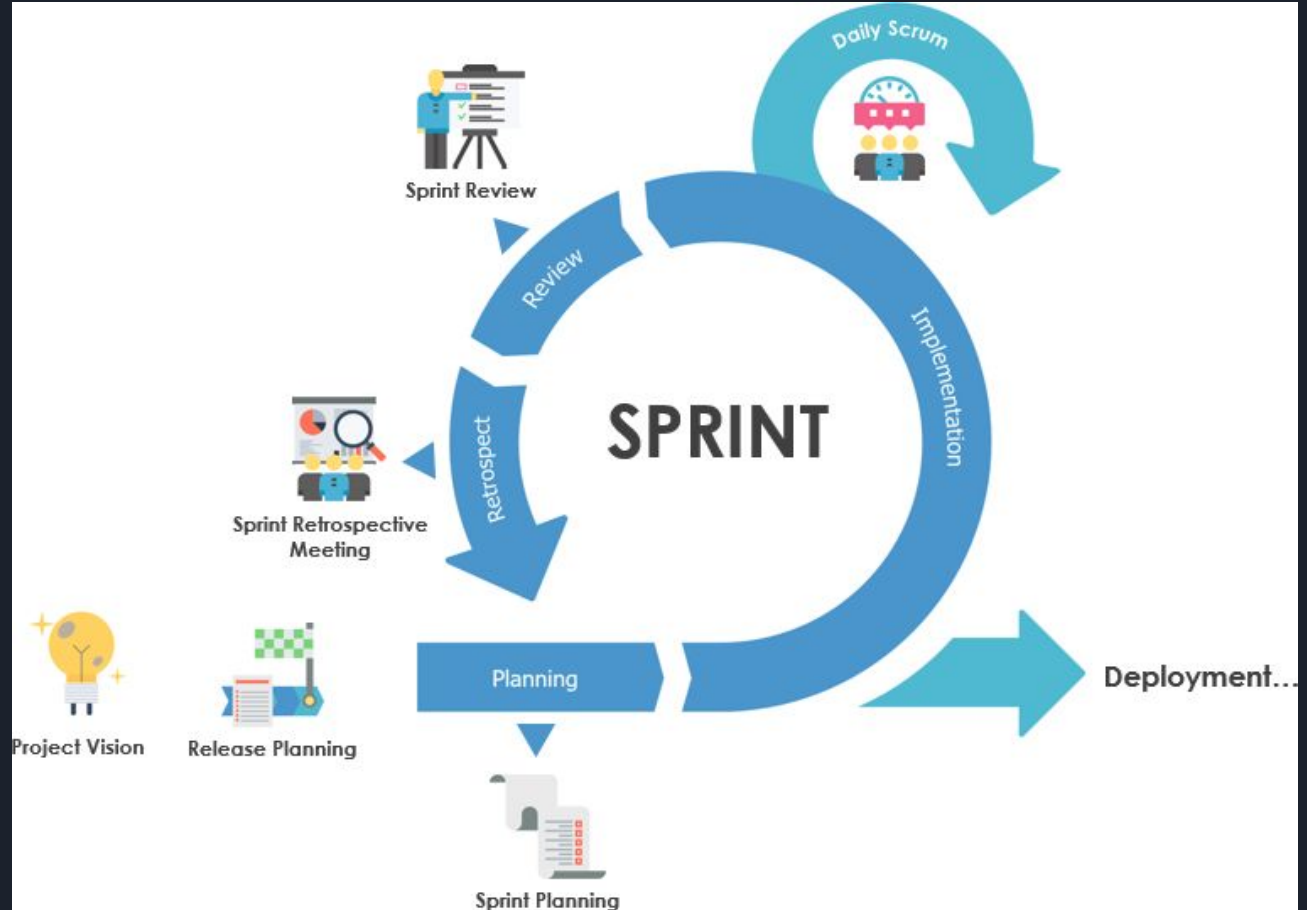- Users are only able to view the blogs

Specifications: Full-Stack Web-Application
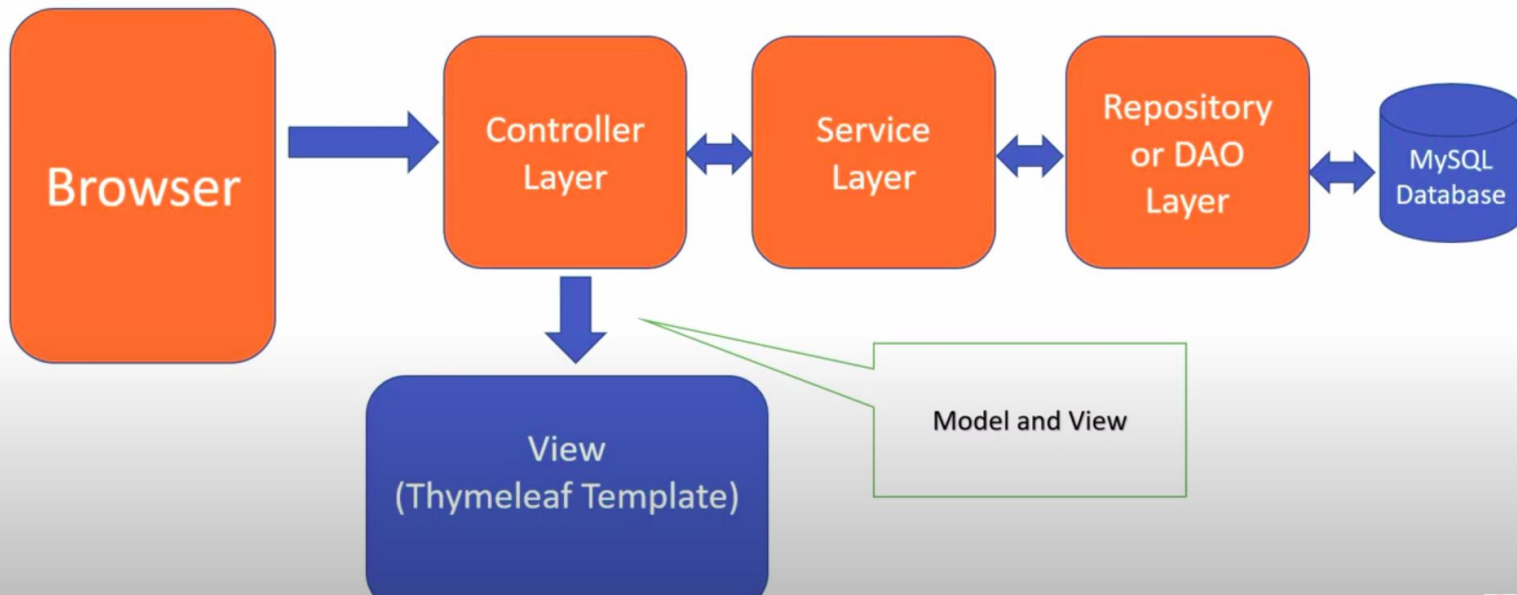
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SDLC

MVC

MVC

```
∨ 📁 src
  ∨ 📁 main
    ∨ 📁 java
      ∨ 📁 com.wiley.contentmanagement
        > 📁 config
        > 📁 controller
        > 📁 dao
        > 📁 model
        > 📁 service
          🌀 ContentmanagementApplication
    ∨ 📁 resources
      > 📁 templates
      📊 application.properties
```

```
∨ 📁 controller
    © ArticleController
    © contentController
    © loginController
    © tagController
∨ 📁 dao
    🄸 ArticleDao
    © ArticleDaoDB
    🄸 ArticleTagDao
    © ArticleTagDaoDB
    🄸 TagDao
    © TagDaoDB
    🄸 UserDao
    © UserDaoDB
∨ 📁 model
    © Article
    © ArticleTag
    © Tag
    © User
∨ 📁 service
    🄸 ArticleService
    © ArticleServiceImpl
    🄸 ArticleTagService
    © ArticleTagServiceImpl
    🄸 TagService
    © TagServiceImpl
    🄸 UserService
    © UserServiceImpl
  🌀 ContentmanagementApplication
```
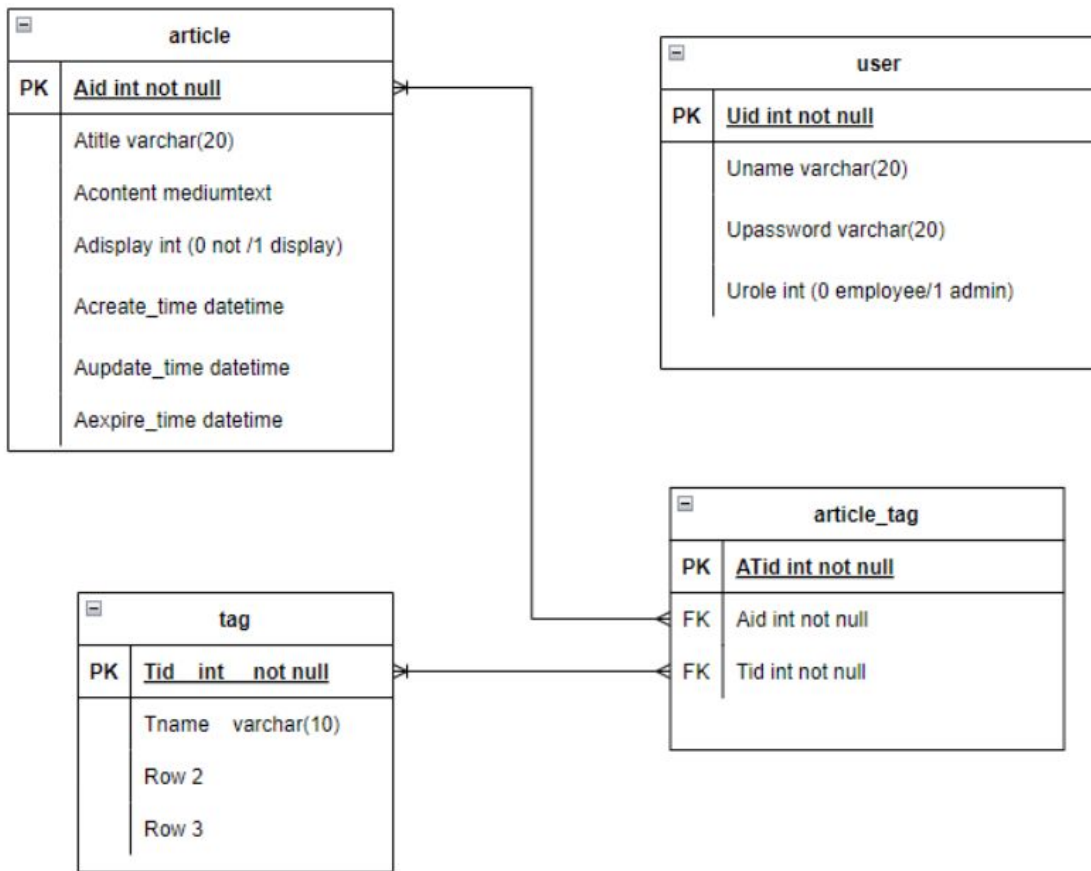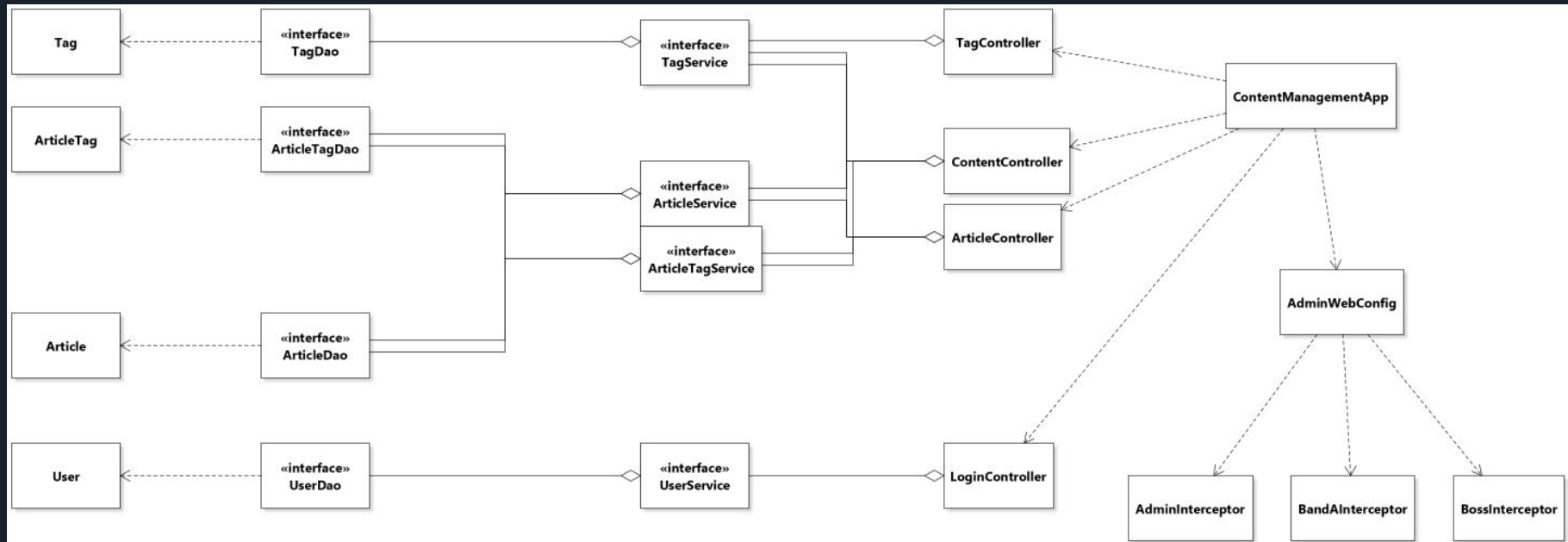
Security

```
v config
  v error
      myErrorPage
  v interceptor
      AdminInterceptor
      AdminWebConfig
      BandAInterceptor
      BossInterceptor
```

```
v src
  v main
    > java
    v resources
      v templates
          404.html
          404.png
          admin.jsp
          blogDetail.html
          editpage.html
          editTag.html
          index.html
          login.html
          manage.html
          manageBoss.html
          page.html
          tag.html
      application.properties
```
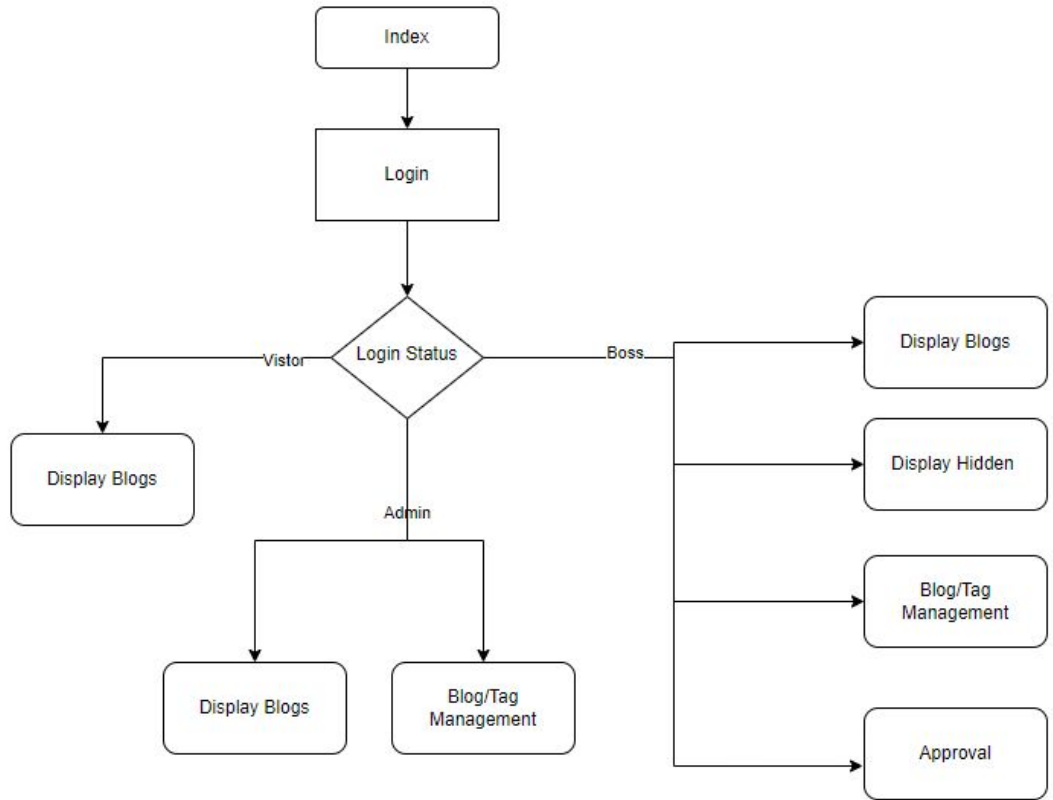
ERD Diagram

Flowchart

User Diagram

Local Database

Cloud Database

```
Running printenv on ●contentblog240... up, run.8117 (Free)
JAVA_HOME=/app/.jdk
JDBC_DATABASE_URL=jdbc:mysql://us-cdbr-east-06.cleardb.net/heroku_b4cb764f7ec7aa3?password=███████████████
JAVA_OPTS=-Xmx300m -Xss512k -XX:CICompilerCount=2 -Dfile.encoding=UTF-8
PWD=/app
PORT=22277
LINES=45
HOME=/app
SPRING_DATASOURCE_USERNAME=██████████
COLUMNS=169
SPRING_DATASOURCE_URL=jdbc:mysql://us-cdbr-east-06.cleardb.net/heroku_b4cb764f7ec7aa3?password=█████████
CLEARDB_DATABASE_URL=mysql://b543c41c690d1e:29a982ee@us-cdbr-east-06.cleardb.net/heroku_b4cb764f7ec7aa3?reconnect=true
TERM=xterm-256color
JDBC_DATABASE_PASSWORD=███████████
JDBC_DATABASE_USERNAME=██████████
SHLVL=0
LD_LIBRARY_PATH=/app/.jdk/jre/lib/amd64/server:
PS1=\[\033[01;34m\]\w\[\033[00m\] \[\033[01;32m\]$ \[\033[00m\]
SPRING_DATASOURCE_PASSWORD=29a982ee
PATH=/app/.heroku/bin:/app/.jdk/bin:/usr/local/bin:/usr/bin:/bin
DYNO=run.8117
_=/usr/bin/printenv
nakamoto@satoshi:~$ mysql -u ██████████████ -p███████ -h us-cdbr-east-06.cleardb.net
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 141173965
Server version: 5.6.50-log MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use heroku_b4cb764f7ec7aa3;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+---------------------------------+
| Tables_in_heroku_b4cb764f7ec7aa3 |
+---------------------------------+
| article                         |
| articletag                      |
| tag                             |
| user                            |
+---------------------------------+
4 rows in set (0.03 sec)

mysql> █
```

Deployment

View

```
v 📁 src
  v 📁 main
    > 📁 java
    v 📁 resources
      v 📁 templates
            404.html
            404.png
            admin.jsp
            blogDetail.html
            editpage.html
            editTag.html
            index.html
            login.html
            manage.html
            manageBoss.html
            page.html
            tag.html
        application.properties
```
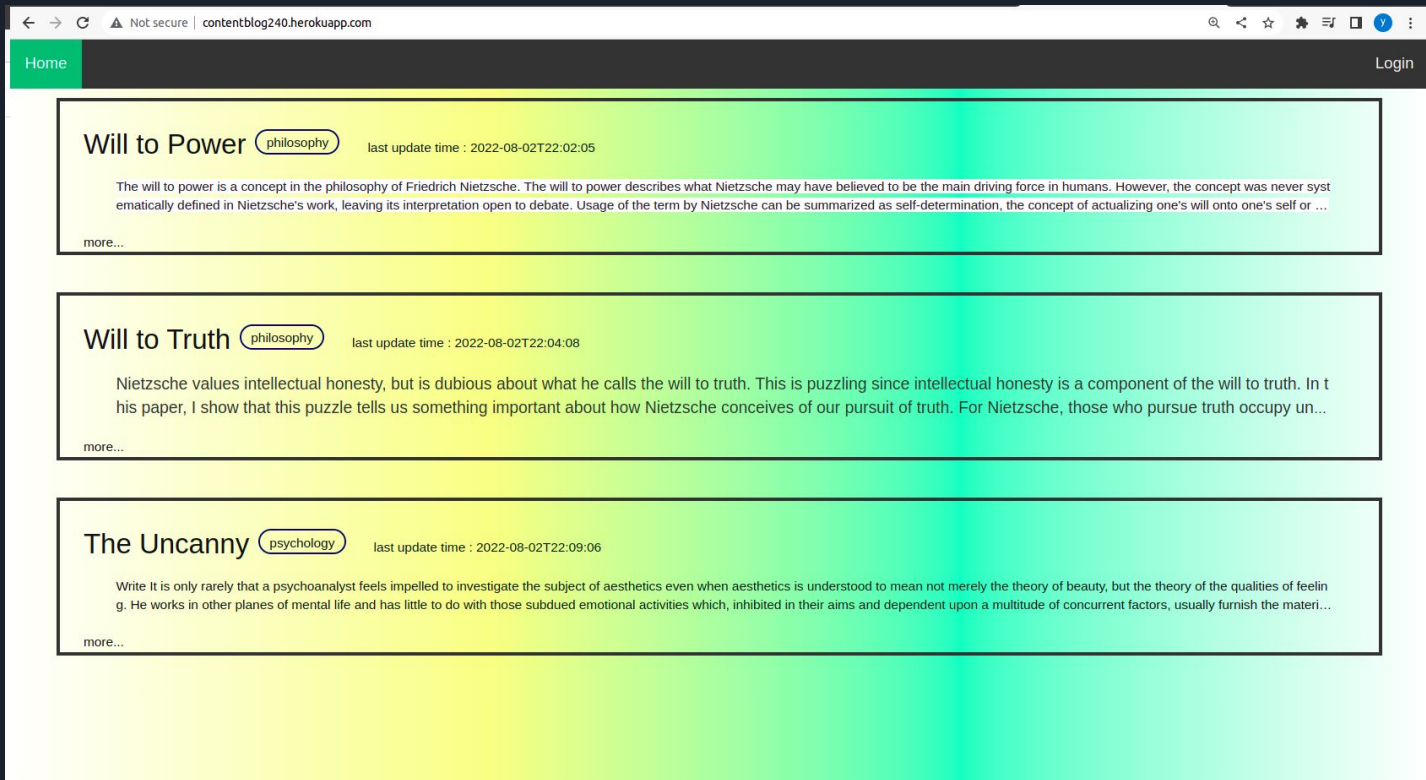
User View

Editor View

Blog ID	Blog Title	Hashtags/Details	Date Posted	Update Blog	Delete Blog
1	Will to Power	philosophy	2022-07-25T16:55:27	Edit	Delete
24	Will to Truth	philosophy	2022-08-02T22:04:05	Edit	Delete
34	The Uncanny	psychology	2022-08-02T22:09	Edit	Delete

Client View

What we've learned

- Teamwork

- Communication

- Equity

- Sharing Responsibilities

Problems Encountered

- Time constraint

- Trouble Uploading pictures

- Limited Resources

- Limited Knowledge

Potential enhancements

- A comment section for the users to leave feedbacks

- A list of emojis for the users to stamp onto each article

- A premium membership fee of 5$ for access to admin role

- A new section to posts pictures attached to the blogs

Thank you

Any Questions or Feedbacks?