

CS353 - Web Development Project

TITLE – vBlog (A blog website)

BATCH NO. – 65

TEAM MEMBERS –

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GITHUB LINKS –

<https://github.com/Sai-vikas-sun/web-dev-cs353>

https://github.com/i-am-adithyavardhan/cs353_webDevProject

1.Purpose –

The purpose of this SRS document is to specify the requirements for blog website that allows users to create new blogs and view other's blogs.

2.Requirements –

2.1 Functional requirements –

1. **View Blogs** – Anyone who visits website should be able to view and search for blogs.
2. **User authentication** – Users can be able to register for our blog website by providing their details such as name, username, password for their account, email and phone number. The website should encrypt the user's password before storing it in the database.
3. **User Profile** – After user successfully logged in, website should provide a dedicated user profile for each user in which user can be able to view his created blogs, liked blogs, their followers and his saved blogs. Users can update their profile (ex :- profile photo, name etc).
4. **Create Blog** – Registered users can create new blogs by providing some necessary details like Title of the Blog, Description, Category tags.
5. **Features** - For successfully logged in users, website should allow them to like, comment and save blogs.

6. **Follow Users** – Authenticated Users can be able to follow and unfollow other users.
7. **Category Search Filter** – Website should provide some categories and users should be able to view blogs related to certain category.

Non Functional requirements –

1. **Security** – The website should have robust security methods in place to protect user data and prevent unauthorized access.
2. **Response time** – The website should have fast response time with minimal delay when loading pages.

3.Design –

3.1 Database Design (Schemas/Collections) –

1. User Collection –

- `_id` – Mongodb unique object Id
- Name
- Username
- Password
- Email
- Bio - User can describe about himself
- PhoneNumber
- ProfilePhoto
- Blogs – An array of posts created by user
- noOfBlogs
- isFollowing – An array of users whom this user is following
- followers – An array of users who follow this user.

- savedBlogs – An array of blogs which user has saved.

```

_id: ObjectId('63ff2b0aa129d9a83fc092c6')
name: "sai vikas"
username: "saivikas_123"
password: "$2a$12$1WseyR70JdfgCpaPy107b.l/n5aEyES9WRrTMkJ1Voo7lGUOrwqFu"
email: "saivikas@gmail.com"
phone: 840819239
__v: 5
noOfBlogs: 1
▼ blogs: Array
  0: "6401ca9f8b2fda44f6209d1b"
  1: "6401cac35f84f7ebd7e769ab"
  2: "6401caf3772110b761db0288"
  3: "6401cb39927b5cc847480a5f"
  4: "6401ce66624f256c5e8004e5"
▼ isFollowing: Array
  0: "6400697237610430c4275d14"
▼ followers: Array
  0: "6401cbef1ff97cab02a98b7d"
▼ savedBlogs: Array
  0: "6401cag3772110b761db0269"

```

2. Post Collection –

- Title
- Category
- Description – Content of the Blog
- noOfLikes
- likedUsers – Array of users who liked this blog
- user – user_id of user who creates the blog

```

_id: ObjectId('6401cdc0624f256c5e8004dc')
title: "Web Dev"
description: "This is web dev blog "
category: "Web-Dev"
noOfViews: 3
noOfLikes: 1
▼ likedUsers: Array
  0: "6501cd98624f256c5e8004e8"
  user: "6481df67624f256c5e1096d2"
__v: 0

```

3. Comments –

- Post - On which post the user commented
- User – User who comment
- Description

3.2 Use Case Diagram –

