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Service layer Re-Design

*I added an updated MVP section to include the log in/sign up service and the stretch feature to include the like post service.

The service layer will be used to listen for and send responses and interact with the database when the administrator is uploading, editing or deleting blog posts.

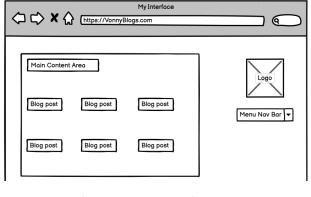
Technology Stack: JavaScript, React & Redux (make request), Node (parse request), Express (generate database request), MongoDB Atlas (store data), and Heroku (deploy).

The following structure will be used:

```
• getPOSTs – (Retrieve all the posts that we currently have in the database)
o Request and response:
export const getPosts = async (req, res) => {
  try {
    const postMessages = await PostMessage.find();
    res.status(200).json(postMessages);
  } catch (error) {
    res.status(404).json({ message: error.message });
  }
}
    interact with api ( showing the functions returning the actions requested using redux thunk):
export const getPosts = () => async (dispatch) => {
try {
  const { data } = await api.fetchPosts(); ( this is us fetching the data from the api to retrieve all the
posts)
  dispatch({ type: FETCH_ALL, payload: data }); ( this is an object that includes the type ( fetch all), we
are sending the data through the action payload aka our actual posts)
} catch (error) {
  console.log(error.message);
}
};
Code 200: Successful operation

    Code 404: The server has not found anything matching the request

o UI Diagram:
```



• createPost (create a new post)

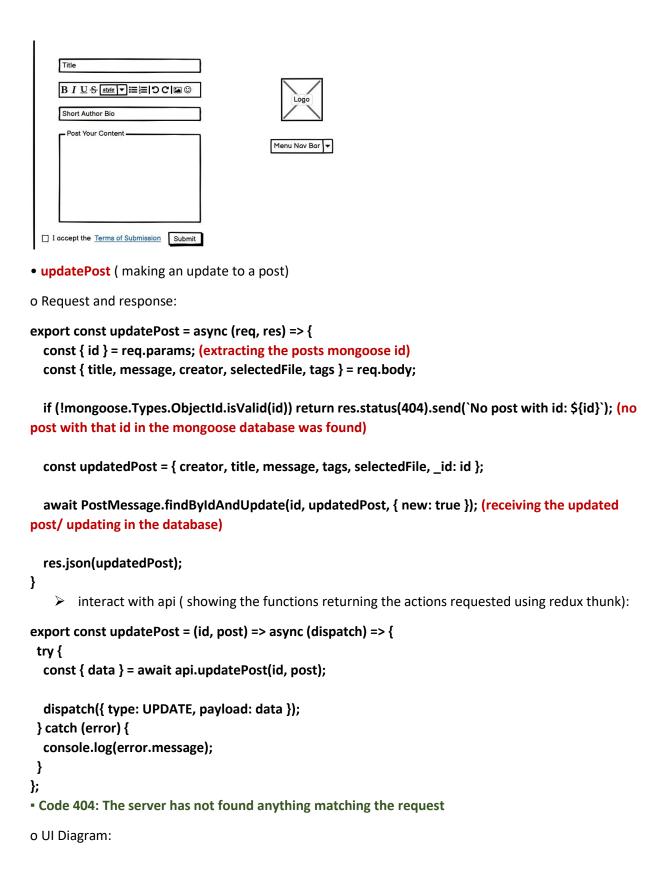
```
o Request and response:
```

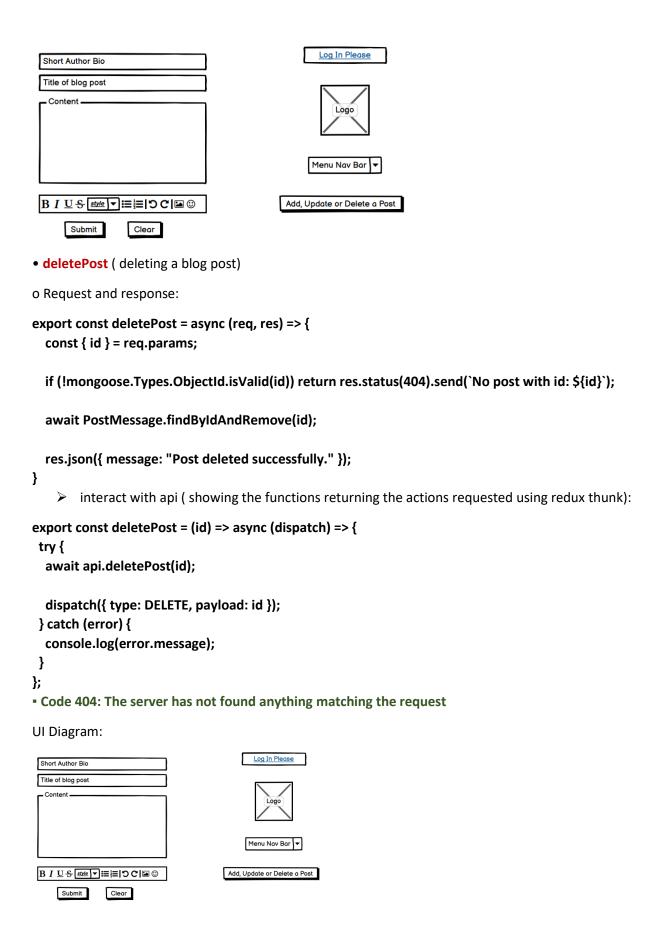
```
export const createPost = async (req, res) => {
  const { title, message, selectedFile, creator, tags } = req.body;
  const newPostMessage = new PostMessage({ title, message, selectedFile, creator, tags })
  try {
    await newPostMessage.save();
    res.status(201).json(newPostMessage);
  } catch (error) {
    res.status(409).json({ message: error.message });
  }
}
    interact with api (showing the functions returning the actions requested using redux thunk):
export const createPost = (post) => async (dispatch) => {
 try {
  const { data } = await api.createPost(post); (making a create post api request to our back-end
server)
  dispatch({ type: CREATE, payload: data }); (dispatching that CREATE action request)
 } catch (error) {
  console.log(error.message);
 }
};

    Code 201: The request has been fulfilled and resulted in a new resource being created.
```

Code 409: The request could not be completed due to a conflict

o UI Diagram:





Additional MVP service for signing up and logging in

```
• signUp ( signing the admin user up)
o Request and response:
export const signup = async (req, res) => {
 const { email, password, firstName, lastName } = req.body;
try {
  const oldUser = await UserModal.findOne({ email });
  if (oldUser) return res.status(400).json({ message: "User already exists" });
  const hashedPassword = await bcrypt.hash(password, 12);
  const result = await UserModal.create({ email, password: hashedPassword, name: `${firstName}
${lastName}`});
  const token = jwt.sign( { email: result.email, id: result._id }, secret, { expiresIn: "1h" } );
  res.status(201).json({ result, token });
 } catch (error) {
  res.status(500).json({ message: "Something went wrong" });
  console.log(error);
}
};
    interact with api:
export const signup = (formData, router) => async (dispatch) => {
 try {
  const { data } = await api.signUp(formData);
  dispatch({ type: AUTH, data });
  router.push('/');
 } catch (error) {
  console.log(error);
}
};

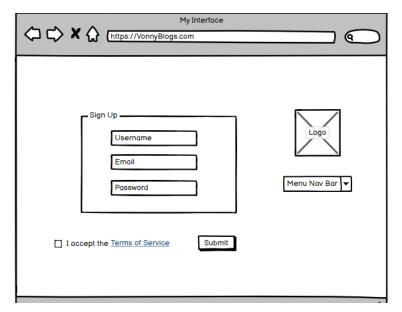
    Code 201: The request has been fulfilled and resulted in a new resource being created.

Code 400: The request could not be understood by the server

    Code 500: The server encountered an unexpected condition which prevented it from fulfilling the
```

request

UI Diagram:

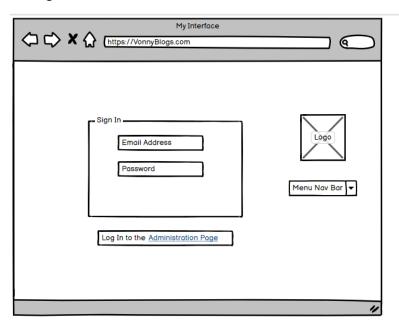


```
• signIn (logging in)
o Request and response:
export const signin = async (req, res) => {
 const { email, password } = req.body;
 try {
  const oldUser = await UserModal.findOne({ email });
  if (!oldUser) return res.status(404).json({ message: "User doesn't exist" });
  const isPasswordCorrect = await bcrypt.compare(password, oldUser.password);
  if (!isPasswordCorrect) return res.status(400).json({ message: "Invalid credentials" });
  const token = jwt.sign({ email: oldUser.email, id: oldUser._id }, secret, { expiresIn: "1h" });
  res.status(200).json({ result: oldUser, token });
 } catch (err) {
  res.status(500).json({ message: "Something went wrong" });
 }
};
    interact with api:
```

```
export const signin = (formData, router) => async (dispatch) => {
 try {
  const { data } = await api.signIn(formData);
  dispatch({ type: AUTH, data });
  router.push('/');
 } catch (error) {
  console.log(error);
 }
};
```

- Code 200: Successful operation
- Code 400: The request could not be understood by the server
- Code 404: The server has not found anything matching the request
- Code 500: The server encountered an unexpected condition which prevented it from fulfilling the request

UI Diagram:



Stretch Feature service

• likePost (liking a blog post)

```
o Request and response:
export const likePost = async (req, res) => {
  const { id } = req.params;
  if (!req.userId) {
    return res.json({ message: "Unauthenticated" });
   }
  if (!mongoose.Types.ObjectId.isValid(id)) return res.status(404).send(`No post with id: ${id}`);
  const post = await PostMessage.findById(id);
  const index = post.likes.findIndex((id) => id ===String(req.userId));
  if (index === -1) {
   post.likes.push(req.userId);
  } else {
   post.likes = post.likes.filter((id) => id !== String(req.userId));
  const updatedPost = await PostMessage.findByIdAndUpdate(id, post, { new: true });
  res.status(200).json(updatedPost);
}
    interact with api:
export const likePost = (id) => async (dispatch) => {
 const user = JSON.parse(localStorage.getItem('profile'));
 try {
  const { data } = await api.likePost(id, user?.token);
  dispatch({ type: LIKE, payload: data });
 } catch (error) {
  console.log(error);
 }
};
Code 200: Successful operation

    Code 404: The server has not found anything matching the request

UI Diagram:
```

