

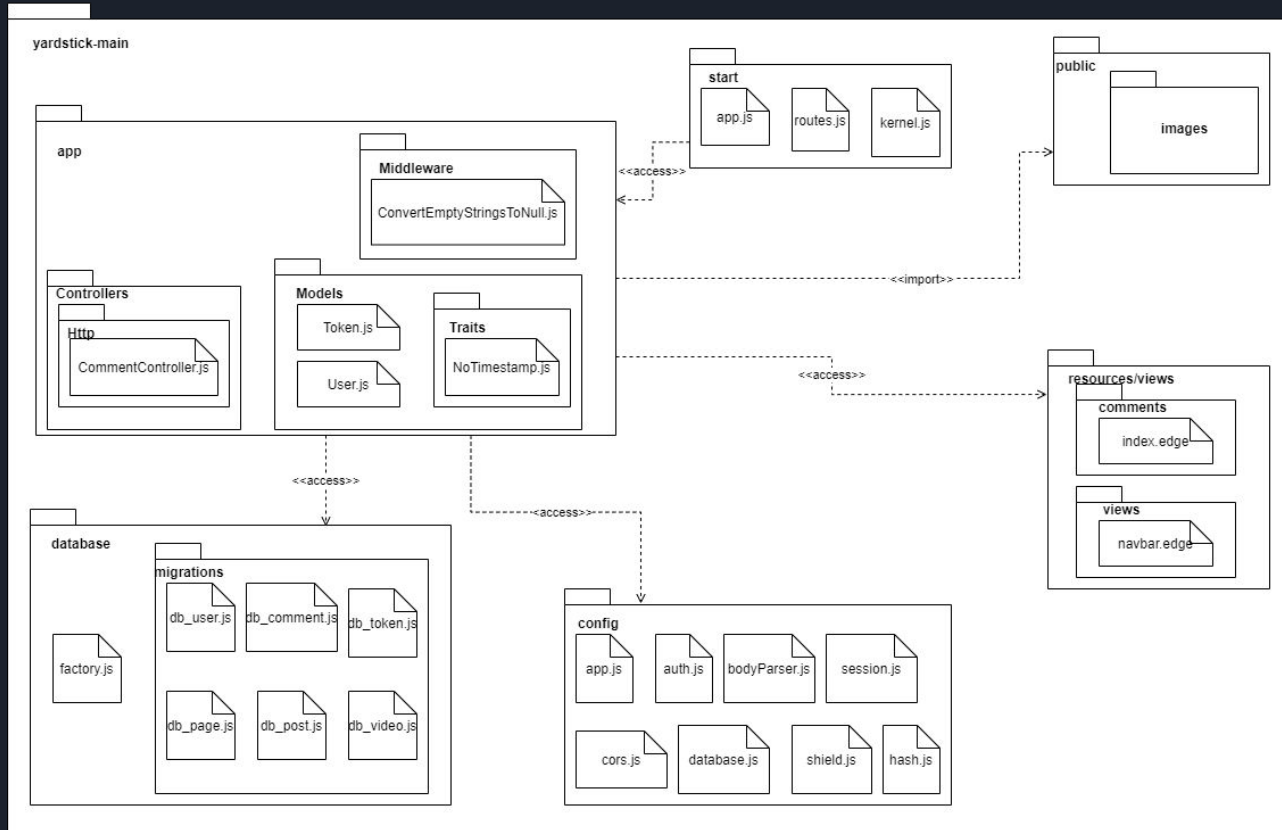


Special

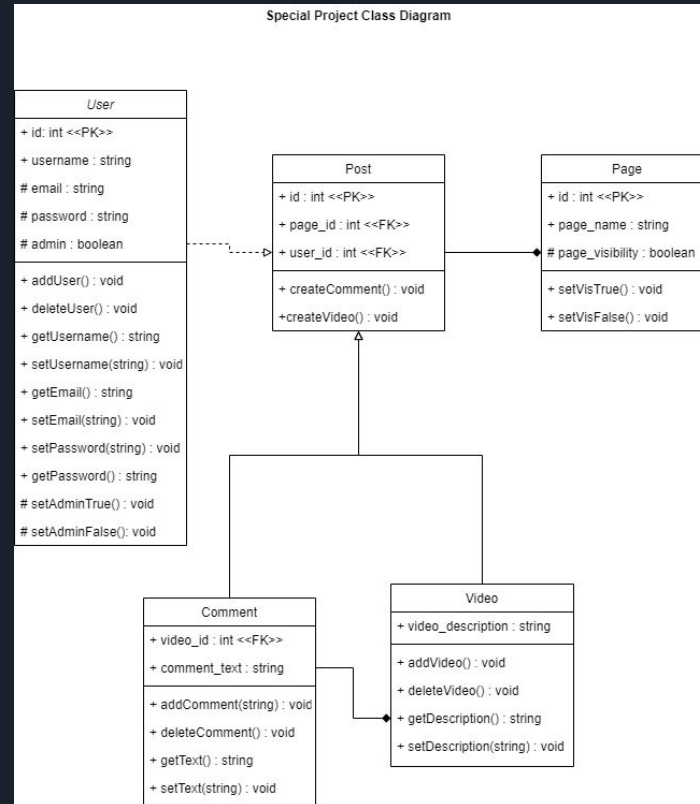
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Alan Tong

System Architecture

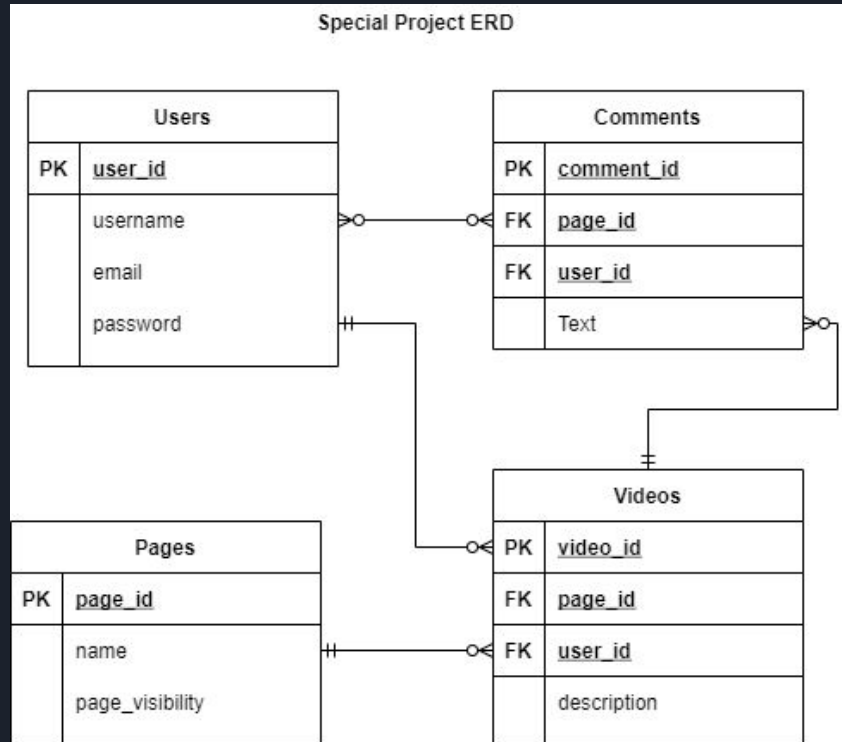
Special Project Package Diagram



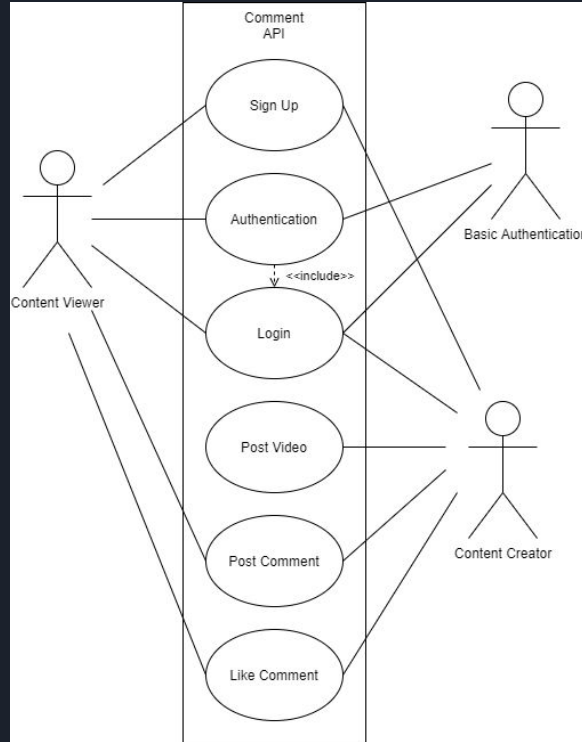
System Architecture Cont.



System Architecture Cont.



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Design Pattern

State Pattern: Two states: (1) authorized or (2) unauthorized user.

- Authorized
 - Comment on a video
 - Delete a comment
 - Edit a comment
 - React to a video (Like, Dislike, and Funny)
 - Upload video via Title, Description, and URL.
 - Edit an existing video (Title, Description, and URL).
 - Delete an existing video
- Unauthorized
 - View existing videos
 - View existing comments



Maintenance

Using GitHub to open up issues and track them.

Modularity.

Agile and weekly meetings.

User testing and using Selenium.



Extensibility

Single iframe left open where specific user videos could be referenced.

Can use the same CSS style format for new elements in future releases.

Database can be remodeled and adapted for the future.

API can be used as an interfacing template with Adonis.



Quality Assurance: White Box

Branch Testing:

- No abnormal behavior on if statements (basically only present in state pattern related)

Database Testing:

- Data verification (no redundant username, valid email, comment nonempty, auth)
- CRUD occurs when intended
- MySQL workbench



Quality Assurance: User Testing

- Redesign of Documentation and Home page aesthetics
- Deleted archived Comments tab
- Change video link to include video image instead of title only
- Create caption informing the user that login is required to post content
- Change like/funny displays
- Make documentation steps more clear for user
- Embed chosen youtube videos

Primary changes from User Tests: **Clarity driven**

- layout updates
- CSS updates
- documentation updates



Quality Assurance: Selenium

Complete Selenium Testing for Feature Complete Release (14:18):

https://www.youtube.com/watch?v=RmGWo0WXcs8&ab_channel=AlecVanderkolk

Initial Selenium Testing (Archived)(5:43):

https://www.youtube.com/watch?v=ZJilI9BfRrE&ab_channel=AlecVanderkolk

Short Selenium Demo (4:47):

https://www.youtube.com/watch?v=AlQXuyGknVg&ab_channel=AlecVanderkolk



Live Demo

- Demo Video: <https://www.youtube.com/watch?v=oWWnfb8L0hw>
- Live Demo on <http://esof423.cs.montana.edu:4006/home>
 - Connected to MSU-Secure