



**Knight Foundation
School of Computing
and Information Sciences**

FIU – Knight Foundation School of Computing and Information Sciences

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BackLogger

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My Poster: Brandon Torrens



Why BackLogger?

In a landscape brimming with content, users often find themselves lost in a sea of choices, spending more time deciding than actually enjoying their media. BackLogger addresses the real issue of content overload by offering a singular, organized platform for tracking and managing diverse media collections. The app streamlines the user's interaction with their media, simplifying the decision-making process and increasing the time spent engaging with the content they love.



What's Available?

Conventional media trackers often pigeonhole users into single categories or genres, a one-size-fits-all approach that doesn't truly fit all. BackLogger breaks away from this mold, offering a versatile platform that welcomes every kind of media enthusiast.

BackLogger's Functions

BackLogger's functional requirements are:

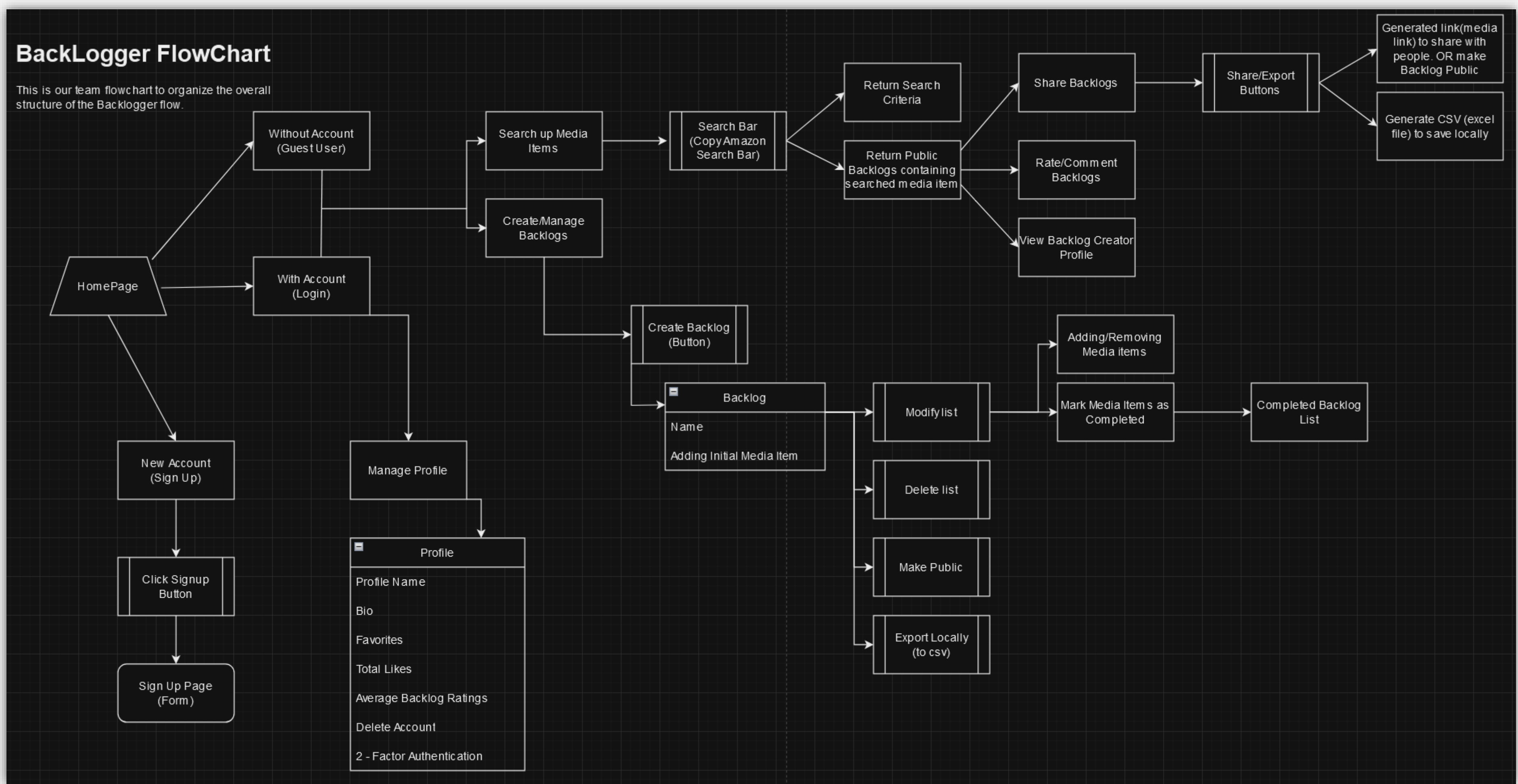
- User account creation/management
- List interface for creation, editing and deletion
- Features to mark progress of media items
- Search functionalities
- Import/Export list

Dependencies

```
"dependencies": {  
  "bcrypt": "^5.1.1",  
  "connect-mongo": "^5.1.0",  
  "cookie-parser": "^1.4.6",  
  "dotenv": "^16.4.1",  
  "ejs": "^3.1.10",  
  "express": "^4.18.2",  
  "express-session": "^1.18.0",  
  "jsonwebtoken": "^9.0.2",  
  "method-override": "^3.0.0",  
  "mongoose": "^8.1.1",  
  "passport": "^0.7.0",  
  "passport-local": "^1.0.0"  
}
```

User Profile Schema

```
const Schema = mongoose.Schema;  
const UserSchema = new Schema({  
  username: {  
    type: String,  
    required: true,  
    unique: true  
  },  
  email: {  
    type: String,  
    required: true,  
    unique: true  
  },  
  password: {  
    type: String,  
    required: true,  
  },  
});
```



Technological Stack

Front-end



Back-end



In pursuit of streamlining the development process we had to choose our technologies based on the teams experience and opted out of using a framework and instead went for a direct implementation of HTML, CSS and JavaScript for the frontend. Our choice of Node.js and Express.js was motivated by desire of having some overlap in coding language between the frontend and backend, while MongoDB was selected due to the team's prior experience with it. This intentional simplicity lays the groundwork for easy future enhancements and contributions.

My Role as Back End Developer

As a backend developer, I Focused on the main functionality of the webapp. We worked on designed database structure to be used in json format. Then we worked on creating different api calls to gather data, and save data to the database. We worked with Technologies of node.js and MongoDB. We programmed in a language called Javascript.

I tasked myself with implementing bcrypt and cookie management/verification into the project.

For bcrypt, it is a node module that allows the handling of encryption for different variables. In our case, I implemented it to encrypt the password and save it encrypted on the database. This is good, because it makes packet interception useless unless you know the encryption method, and if there is a database breach, your information can be save due to the encryption package.

The cookie/management/verification method was a manual objective to allow the developer to have full control over the user verification and active validation. That way if the cookie is lost at any point, the user is disconnected from the service and or allowed to stay on if the service still exists.

Implementation: Agile Development Methodology

- **Sprint Execution:** Over 7 sprints, the team and I advanced BackLogger's capabilities, each cycle introducing new, robust features.
- **Daily Scrum Meetings:** Led our team in daily scrums to swiftly address challenges and maintain momentum towards our collective goals.
- **Backlog Management:** Ensured our backlog accurately represented the project's evolving needs, keeping tasks targeted and efficient.
- **Sprint Reviews & Learning:** I facilitated sprint reviews and retrospectives, fostering a culture of continuous improvement and teamwork.
- **Integration & User Experience:** Worked closely with the team to integrate front and back-end modules, focusing on a responsive design for a better user experience.
- **User Feedback Implementation:** After development, we collaboratively fine-tuned UI/UX, implementing user feedback to improve media tracking.
- **Launch Readiness:** Together, we prepared for the final sprint, focusing on thorough documentation and a polished presentation of BackLogger.



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