SPOILED TOMATILLOS WRAP-UP

Team 26: Coders Unlimited
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SYSTEM FUNCTIONALITY

Target Functionality

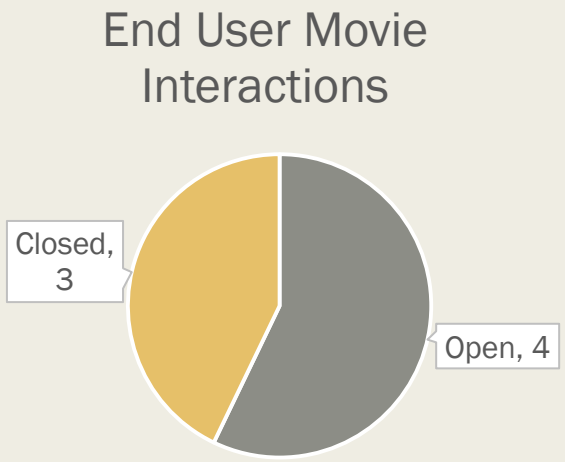
- A social network platform centered around watching movies
  - *User profiles, Friending, User groups, suggest movies to friends*
  - *Rate and review movies, see others' reviews*
  - *Get movie suggestions based on personal taste in movies*
- An administrative back-end
  - *Telemetry of effectiveness of suggestion algorithms*
  - *Control over end-user accounts*

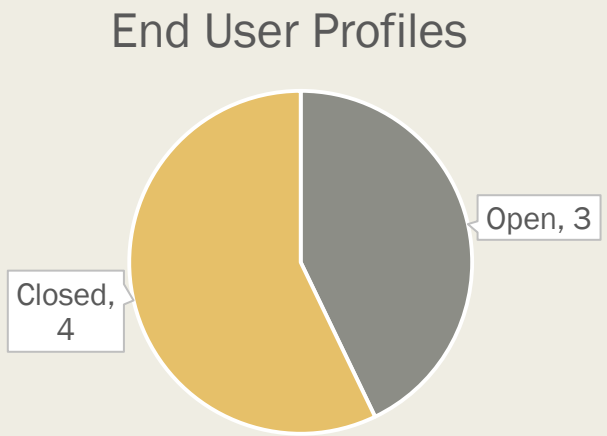
Achieved Functionality

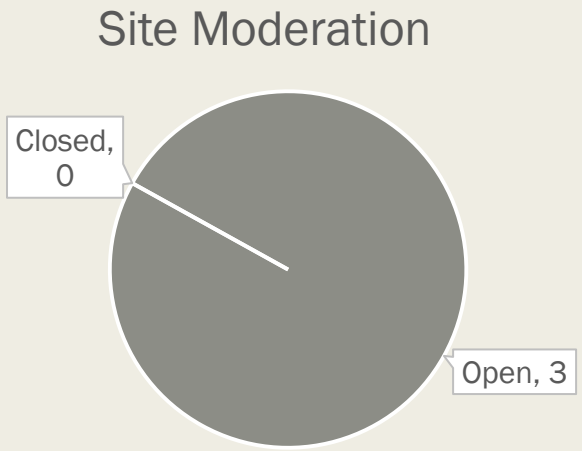
- Profile creation
- Logging in / out, security handled by Google
- Searching movies
- Rating and reviewing movies
- Searching Users by Username
- Friending*
- Group creation
- Pulling Additional information about movies in the form of "*Now Playing*" tab

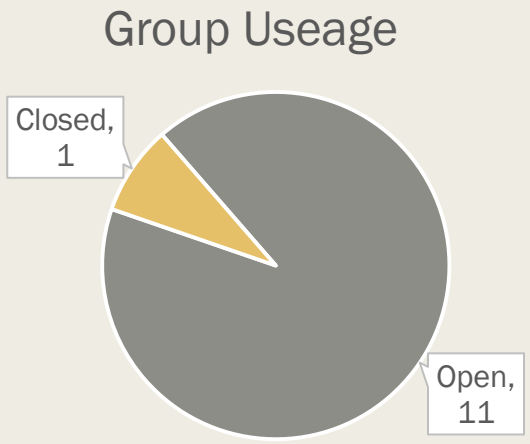
** Backend logic for friending was written but not yet implemented in the frontend*

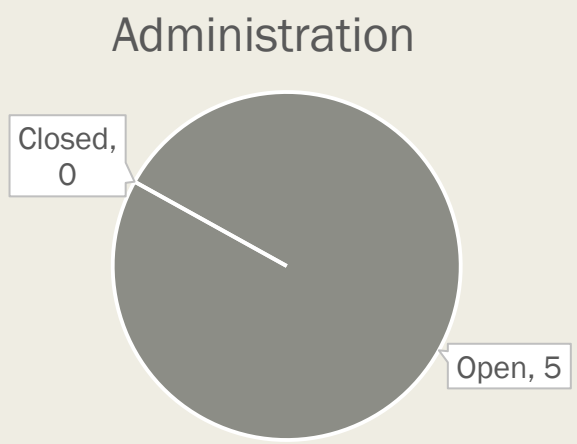
Achieved Functionality











Source: https://cs5500-jira.ccs.neu.edu/secure/DataplaneReport!default.jspa?report=5bda7860-a571-42e5-af04-1878b24b752b

Utility to Client

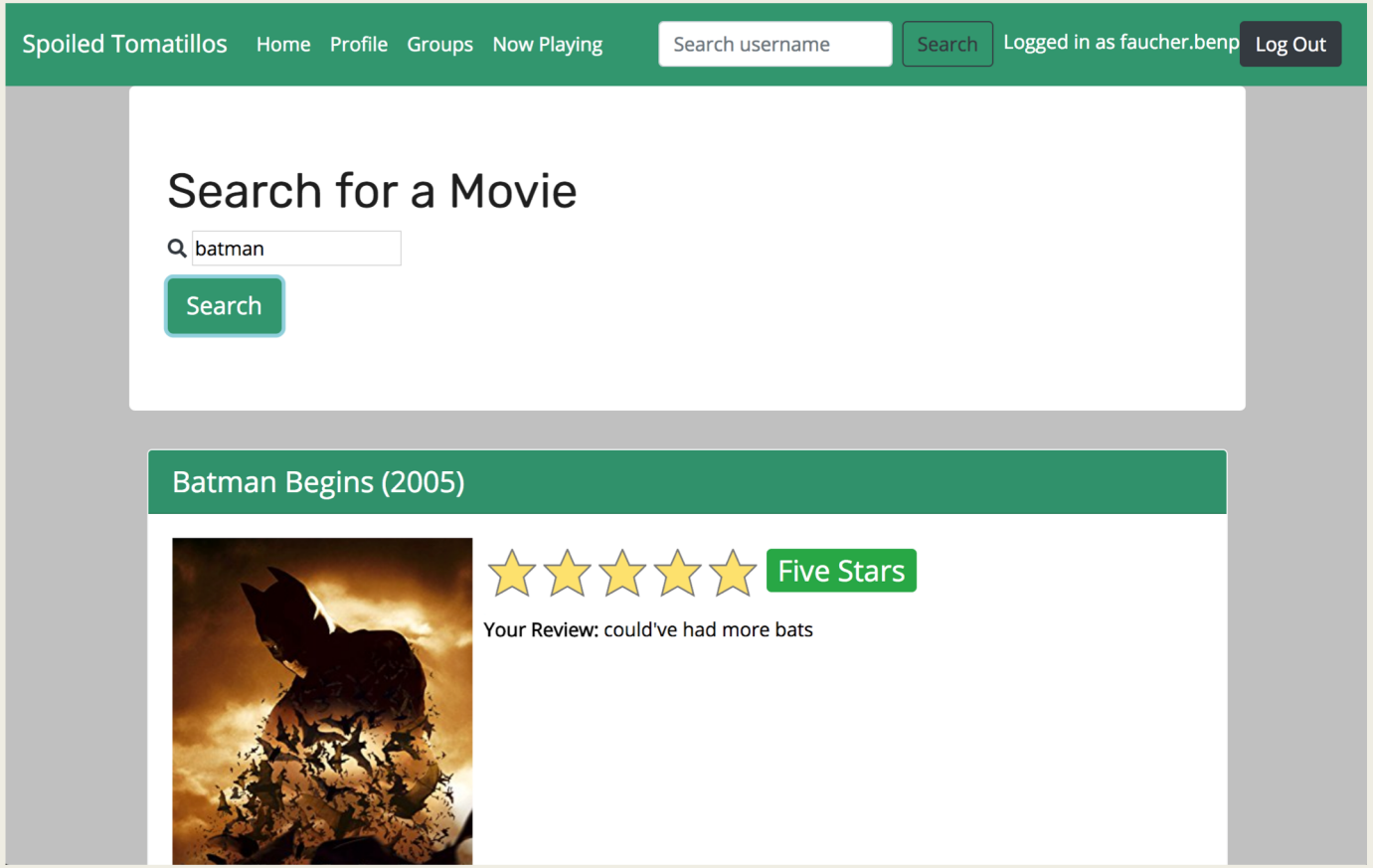
- Most core functionality implemented
- Some features that make a social media website feel "social" not yet fully realized
- Backend logic in place; front end not yet realized/debugged
- Client will likely contract additional developers to take over
- Frameworks used are well documented and the code is neat, maintainable, and correctly tested

JOB QUALITY

Code Quality

- Code coverage on SonarQube: 98.1% statement, 60.6% branch*
- Backend logic developed uniformly and neat, contained to src folder
- Database is easy to read and understand, SQL file under version control
- Code is robust, website is not susceptible to SQL injection or data dictionary attacks (since we are not storing passwords in our database)
- Continuous deployment process automatically builds and tests all code, automatically deploys master branch only
- Pull requests required to merge into master branch

* Source: http://qube.codersunltd.me/component_measures?id=edu.northeastern.cs4500%3Ateam26-st-app-master&metric=coverage



UX Quality

- Clean and intuitive
- Performed use case study with prototype on several testers to get feedback before development
- Chose a simplistic feel (a la Google) with simple search bars so that our audience would be most receptive

PROCESS AND TEAMWORK

Teamwork

- George worked on the database as well as partially on the backend
- Joe worked heavily on the backend as well as partially on the database/frontend
- Ben worked devops and was in charge of making sure Jenkins/SonarQube was running smoothly, assigning and creating Jira tickets, as well as leading the scrum and making sure tasks were completed on time
- Maddy worked heavily on implementing features in the frontend/google authentication for login

Process

- Our team utilized Jira effectively creating tickets and assigning them to developers
- All development was developed in branches tagged with the ID of the Jira Issue being resolved
- Our group used smart commits to keep track of which commits belong to which branch/issue
- We did not use "Slack-ups" as suggested on the project guidelines although we were active on slack and utilized it to organize our development as well as monitor the status of Jenkins/Qube
- Managed to automate build, test, deploy
- Utilized PRs and protected our master branch
- We adhered to our protocols strictly (2 peer reviews per PR)
- Recognized shortcomings (lack of FE developers), but didn’t really address it

TECHNOLOGY TRANSFER

State of the System

- App
  - *Vertical prototype working*
  - *Some horizontal functionality*
  - *SpringBoot framework*
  - *Java code well documented*
  - *Front-end standard HTML, JS, CSS*
- Environment
  - *Full CD workflow implemented*
  - *Jira, GitHub, Jenkins, and SonarQube*
  - *Easy to pass off code base*

Next Steps

- More end-user functionality!
  - *Friends, Group interactions, Recommendations, Moderation*
- UI Refinements, more original design
- Administrator Panel (another project)
- Better feature self-testing process
- More thorough code metrics
- Release process