

**Team Number:** 109-2

**Team Name:** Bello

**Team Members:**

Nikolaas Bender, Johnathan Gossett, Iva Majeticova, Ngozi Nwankwo, Cooper Simpson, Benjamin Singer

**Project features list:**

→ Front End

- ◆ Home page
  - Gives an overview of the service and links to log in and sign up pages
- ◆ Login page
  - Allows users to sign into their accounts, with forgotten password feature and accessibility to sign up page if the user does not yet have an account
- ◆ Sign up page
  - Allows users to create a new user account, with the option to log in if they already have one
- ◆ User page
  - Displays pertinent user information (Photo, name, dev team) and hosts dynamic feed of tasks, pins, comments, and posts
- ◆ Project page
  - Hosts a kanban style interface for a project, with intractable posts and a list of project members and dev teams
- ◆ Options page
  - For all users: allows changing of security features, and personalization of userpages
- ◆ Admin tools page
  - For project leads: allows creation of new tasks, manipulation of dev teams, and assignment of tasks to team members

→ Back End

- ◆ Load pages dynamically
  - Server should fetch page needed, load necessary data from database, and populate the page
- ◆ Browser sessions
  - Website should keep track of user once logged in and for the duration of the session
- ◆ Implement Database
  - Database should have all necessary user info

**Requirements (Need 6 total)**

→ User Page

◆ Functional

- Must display a user photo, user name, users projects and assigned dev team on each project
- Must display a feed of tasks listed in order of due date (descending)
- Must interlace task feed with comments, pins, and posts in chronological order
- Must link to options page and assigned projects pages
- Allow for user log out and redirect to home page

◆ Non-functional

- Must give user easy access to due date and task information
- Must allow user to store important content or notes in the form of pins
- Must engage the user to encourage interaction with the project

→ Sign up page

◆ Functional

- Must create a new user account upon insertion of valid inputs
- Upon successful creation of an account, must link to user page
- Must successfully link to log in page

◆ Non-functional

- Must allow new users to easily join the platform, with as little struggle as possible

→ Log in page

◆ Functional

- Must take valid inputs and make a user account query
- If query is successful, page should redirect to the user page
- If unsuccessful, clear forms and ask for re-input

◆ Non-functional

- Must allow returning users to quickly access their content

→ Project page

◆ Functional

- Must Display a to do, in progress, done, and backlog containers
- Containers must display respectively assigned tasks
- Tasks must contain a title, assigned project team, task details, and assigned team members
- Users must be able to click on tasks for more information

- Users must be able to pin items in the project page, attaching them to their userpage feed
- ◆ Non-functional
  - Must neatly display and organize all elements of a project for a team
  - Must allow a team to efficiently and effectively collaborate
  - Must allow easy tracking of time sensitivity
  - Must allow team to quickly and easily roll out new tasks
- Dynamic Page Loading
  - ◆ Functional
    - Must connect and load all pages to/from server
    - Each page should have a URL that does not contain “page.html”
  - ◆ Non-functional
    - Any page should be able to load from URL
    - Any page should be able to be accessed from any other page on website
    - Each page should be loaded with necessary data from database server
- Browser Sessions
  - ◆ Functional
    - Random cookie generation with short expiration time to prevent session hijacking
    - Keep track of user so appropriate data is displayed
  - ◆ Non-functional
    - Site should keep user logged in for short period of time (i.e. 30 minutes)
    - User should not have to log in more than once while on page

## **Project Plan**

John and Ngozi: Front End

Ben and Nick: Server

Cooper and Iva: Database

