

Kambaz Pazza Project Requirements

Introduction

In this Web development course, your final project will culminate in an exciting challenge: creating **Pazza**, a clone of a popular Q&A platform of a similar name. **Pazza** will be integrated directly into the ongoing **Kambaz** project you've been developing throughout the semester. This project will test your skills in the MERN stack - MongoDB, Express.js, React, and Node.js - providing you with practical experience in merging new functionalities into existing systems. You'll need to replicate Pazza's core features such as posting questions, answering, and categorizing discussions, all while ensuring seamless integration with your current codebase. This task will enhance your ability to manage larger codebases, practice full-stack development, and understand the complexities of feature integration in a live, evolving project. Let's dive in and transform your semester-long project into a more interactive and community-driven platform!

The screenshot below illustrates **Pazza** embedded in **Kambaz**. Clicking **Pazza** in the **Courses Navigation** sidebar displays **Pazza** on the right hand side. Each course has its own separate instance of **Pazza** with its own set of posts, questions, and answers. In its header at the top, **Pazza** displays the name of the current course and the name of the currently logged in user.

The screenshot shows the Kambaz application interface. On the left is a sidebar with various icons and links: Account, Dashboard, Courses (selected), Calendar (with 32 notifications), Inbox, and History. The main area has a header "CS4550 02 W SP25 > Pazza". Below the header is a navigation bar with "pazza" and "CS 4550-02" followed by links for Q & A, Resources, Statistics, Manage Class, and a user profile for Jose Annunziato. The main content area shows a "New Post" button and a search bar. Below that is a "THIS WEEK" section with several posts:

- Instr Nayonika Sen - Office Hours... (Thursday)
- Hi Everyone, I am holding my office hours now. Feel free to drop by if you have any questions: <https://officehours.khoury>.
- Instr Meet Your TA for Web Devel... (Thursday)
- Hi Everyone, My name is Pramod, and I am excited to be your Teaching Assistant this semester. I took this course in Fall 2023 and gained valuable insights and hands-on experience, which I look forward to sharing with you all.
- An instructor thinks this is a good note
- Private Starting HW2 (Thursday)
- Hi! I want to start assignment 2, but don't want to effect assignment 1. For assignment 1 I submitted a link with a1-- a

On the right, there is a note from Pramod titled "Meet Your TA for Web Development – Pramod" with 25 views and an "Actions" button.

Questions and Answers Screen (Q&AS)

Let's delve into the specifics of the **Questions and Answers Screen (Q&AS)** for our Pazza project, which forms a crucial part of your final web development assignment. When you click on **Pazza** in the **Courses Navigation Sidebar (CNS)**, the **Q&AS** is immediately revealed, serving as the default screen for **Pazza**. This screen is designed to facilitate interaction and learning by allowing users to post queries, contribute answers, and engage in discussions. Here's what you need to know about its structure: At the top of all screens within **Pazza**, there's a fixed **Pazza Navigation Bar (PNB)**, which remains stationary as you scroll through the content, ensuring that navigation controls are always accessible. This bar includes several key elements essential for navigating and interacting with the platform. Let's explore these components and the layout of the **Q&AS** to understand how they integrate to enhance user experience.

- When you click **Pazza** in the **Courses Navigation Sidebar (CNS)**, the **Questions and Answers Screen (Q&AS)** is revealed, as shown below
- The **Q&AS** is the default screen when **Pazza** is clicked in the **CNS**

The screenshot shows the 'Class at a Glance' page for CS 5610-01. At the top, there's a navigation bar with tabs for LIVE Q&A, Drafts, hw1 through hw6, project, exam, logistics, other, and office_hours. Below the navigation bar is a search bar and a 'New Post' button. On the left, there's a sidebar with sections for PINNED (Search for Teammates!, 1 Open Teammate Search), TODAY (How to make buttons sit on the right..., 04:09 PM), YESTERDAY (Clarification on Lab1, 02:43 PM), and LAST WEEK (Instr. Heet Kanani - Office hours s..., 06:56 AM; Instr. Aryan Mehta - Office Hours, Friday; Instr. Kaumudi Rawal - Office Hours, Thursday). The main content area displays course statistics: no unread posts, no unanswered questions, no unanswered followups; license status (active instructor license); total posts (27), total contributions (50), instructors' responses (5), students' responses (0); avg. response time (8 hr); and student enrollment (106 enrolled out of 100). There's also a section about AI-generated summaries for followups and folders, and download links for the app store.

- The **Q&AS** has the following sections
 - At the top of all screens there is a fixed **Pazza Navigation Bar (PNB)** that does not scroll with the rest of the content, is shown at all times, and has the following elements

The screenshot shows the Pazza Navigation Bar (PNB) for CS 5610-01. It includes tabs for Q & A, Resources, Statistics, Manage Class, and Jose Annunziato, with the Q & A tab underlined. The Jose Annunziato tab shows a profile picture and the user's name.

- **Application Logo (AL)** on the left (**pazza**)
- **Course Name (CN)** showing the name (or course number) of the current course selected in the **Kambaz Dashboard (KD)**
 - Each course has its own instance of **Pazza**, e.g., selecting a different course in the **Kambaz Dashboard (KD)** would show a different set of questions, answers, users, folders, etc.
 - Ignore the chevron to the right of the course name (the small triangle next to the course number)
- After the **CN**, there the following tabs that highlight when the corresponding screen is displayed, e.g., underlined, bolded or different colors
 - **Q&A** to navigate to **Q&AS** described in this section and is the default screen when **Pazza** is clicked
 - **Resources** not required
 - **Statistics** not required
 - **Manage Class** to navigate to the **Manage Class Screen (MCS)** described later in this document
 - **Jose Annunziato** shows me as the currently logged in user. Display the name of the actual current logged in user
 - **Pazza** behaves differently based on the currently logged in user, e.g., user's role such as instructors or student allow doing certain things, the posts that are visible are based on who is logged in
 - Ignore the rest of the options in the navigation bar
- Below the **Pazza Navigation Bar (PNB)**, there's another fixed **Folder Filters (FF)** listing various folders and buttons to filter the questions, notes, and answers posted by students and instructors

- **Live Q&A** not required
- **Drafts** not required
- **hw1, hw2, ..., office_hours** allow filtering posts by the folder they were created in
 - Users can select only one folder at a time
 - Posts listed in the **List of Posts** are filtered by the selected filter
 - The selected folder is highlighted, e.g., underlined, bolded, or different color
- Below the **Folder Filters (FF)**, there are two columns described in the following section
 - On the left of the **Q&AS**, there's the **List of Posts Sidebar (LOPS)** shown here on the right
 - On the right of the **Q&AS**, there's the **Post Screen (PS)**

List of Posts Sidebar

On the left of the **Q&AS**, there's the **List of Posts Sidebar (LOPS)** shown here on the right

- At the top of the **LOPS** there's a set of **List of Posts Controls (LOPC)** including **Unread**, **Updated**, **Unresolved**, and **Following**. These are not required
 - To the left of **Unread** there's the **Toggle List of Posts Sidebar** button (**TLOPS**) represented as a triangle pointing to the left, and this button **IS required**
 - Clicking the **TLOPS** hides and shows the **List of Posts Sidebar**
 - When the **LOPS** is hidden, the **TLOPS** triangle points to the right
 - When the **LOPS** is shown, the **TLOPS** triangle points to the left
- Below the **LOPC**, there's a **New Post Button (NPB)** and the **Search Posts Field (SPF)**
 - Click on **NPB** to reveal **New Post Screen (NPS)**, described later in this document
 - Type in the **SPF** to filter posts listed in the **List of Posts (LOP)** based on the text in the **SPF**
 - **Show Actions** is not required
- Below the **NPB** and **SPF** there's the **List of Posts (LOP)**
 - The **LOP** lists posts visible by the currently logged in user
 - Posts are listed in reverse chronological order with newer posts at the top of the list and older posts at the bottom of the list
 - Posts display
 - The title or summary in bold
 - Whether the post was created by a student or instructor
 - The text of the first 1 to 4 lines of the post
 - The time the post was created
 - Not required:
 - An icon if the post is a note and another icon if the post is a question
 - The message on whether the post is good or not
 - Posts are grouped in a **category accordion** that hide or show the group of posts when clicked
 - **Pinned** is not required
 - **Today** lists the posts created today
 - **Yesterday** lists the posts created yesterday
 - **Last Week** lists the posts created last week
 - Additional **category accordions** list posts grouped by what week they were posted in

The screenshot shows the List of Posts Sidebar (LOPS) interface. At the top, there are filters for Unread, Updated, Unresolved, and Following. Below that is a 'New Post' button and a search bar. The main area is divided into sections for TODAY, YESTERDAY, and LAST WEEK. Each section contains a list of posts with details like the author, creation time, and a note indicating it's an 'instructor think this is a good note'. The interface uses a light gray background with blue and orange highlights for buttons and links.

- The name of the category should be **Monday's Date of Week - Sunday's Date of Week**, e.g., if a week starts on Monday January 7, then the name of the category would be **1/7 - 1/13**
- You are free to make Sunday the first day of the week
- The year is optional

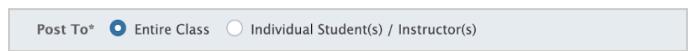
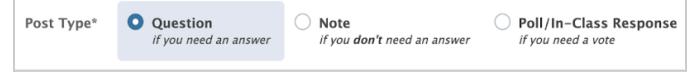
Post Screen

On the right of the **Q&AS**, there's the **Post Screen (PS)** which is the main content and can display various screen depending on whether the user is viewing an existing post, answering a post or creating a new post. First let's discuss how users post new questions or notes.

Posting New Questions or Notes

Let's now focus on the section detailing the requirements for the screen where users can post both questions and notes, an integral feature of the **Pazza** platform. This screen allows users to contribute their queries and insights directly related to their courses. Here's an introduction to how this functionality works: Clicking **New Post** in the **Questions and Answers Screen (Q&AS)** will display the **New Post Screen (NPS)**, where the process of creating and categorizing a post begins. At the top of this screen, you'll find three **Post Type Tabs (PTT)** that let you specify whether your post is a **Question**, a **Note**, or a **Poll/In-Class Response**, although the latter is not required for this implementation. Here's a detailed look at the requirements for this screen:

- Clicking **New Post** in the **Questions & Answers Screen (Q&AS)** displays the **New Post Screen (NPS)** as shown above
- At the top of the **NPS** there are three **Post Type Tabs (PTT)**
 - **Question** selects the type of this post as a **Question** (selected by default)
 - **Note** selects the type of this post as a **Note**
 - **Poll/In-Class Response** is not required
- Below the **PTT**, authors can select who to **Post To (PT)**
 - **Entire Class** selects that the post will be visible to everyone in the class (selected by default)
 - **Individual Students/Instructors** selects that the post will only be visible to selected users
 - A user selection control appears allowing selecting which users can see the post
 - The first option is **Instructors**
 - The rest of the options are all users in the course including all students and instructors
 - You can select any number of users
 - Only users selected will be see the post in their **LOP**
 - No screen shot is provided, so you are free to implement as you wish
- Below the **PT**, you can **Select Folders (SF)**
 - Displaying the **Folder(s)** this post belongs to
 - The list of folders can be edited as described in the **Manage Class** later in this document
 - You can select as many folders as you like
 - At least one folder is required



- In the **Q&AS**, users can filter the posts in their **LOP** by clicking the **Folders**
 - Clicking **Manage and reorder folders** navigates to **Manage Folders** described later in this document
- Below the **SF**, authors type a **Summary** of the question
 - Serves as title and a quick one line short description of the **Question or Note**
 - Maximum 100 characters
 - **Summary** is required
- Below the **Summary**, authors can type the **Details** of their **Question or Note**
 - Only support **Rich Text Editor (RTE)**. Search for, install, and use an existing **RTE** React component
 - **Details** is required
 - Ignore **Plain Text Editor**, **Markdown Editor**, and **preview**
- Below the **Details** ignore **Posting Options**
 - It is not required that posts be emailed to users
 - Posts can be viewed by coming to **Pazza**
- Users click on **Post My Question** or **Post My Note** to create the post
 - **Save Draft** is not required
 - **Cancel** discards the post, closes the **Post Screen (PS)** and returns to the **Class at a Glance Screen (CGS)** described later in this document
 - If required fields are missing, show an appropriate alert, dialog or message below each required field
 - If no errors
 - Creates new **Question or Note**
 - Shows new post in **LOP**
 - Highlights new post
 - Shows new post on the right side as described in the next section

Summary* Enter a one line summary, 100 characters or less

Details Rich text editor Plain text editor Markdown editor preview

Insert Format Table

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Posting Options Send email notifications immediately (bypassing students' email preferences, if necessary)
* Required fields

Post My Question to CS 4550-02! Save Draft Cancel

Viewing and Replying to Posts

Now, let's explore the requirements for the screen where users can view and post answers to questions within the **Pazza** platform. This screen allows instructors and students to provide responses to queries posted by other students. Upon clicking a post in the **List of Posts (LOP)**, it is displayed in the **Post Screen (PS)** as shown in the provided screenshot. Here, the original question is prominently displayed at the top of the **PS**, with its summary highlighted as a bold header for easy reference. Below is a detailed list of requirements that define how this screen should function, ensuring a seamless and effective interaction for answering questions. If a post is selected, or a user clicks on a post to select it in the **List of Posts (LOP)**, then on the right hand side

- The post is displayed in the **PS** as shown here on the right
- The current post is highlighted in the **LOP**
- All posts displayed in the **PS** display the following
 - How many have viewed the posts
 - The folder the post was created in
 - Who created the post
 - **Edit** button that allow instructors and the author of the post to edit the post

question @57 Actions 1 view

Grade for Assignment 1

Hi Professor,

I noticed that my grade for Assignment 1 is showing as 0% on Canvas. May I know if this is the final grade I received or if it means the assignment is still being graded? I couldn't find any feedback regarding where I might have lost points, and I'm a bit concerned.

Thank you in advance!

Best regards,
John Doe

hw1

Edit good question 0

i the instructors' answer, where instructors collectively construct a single answer

Rich text editor Plain text editor Markdown editor preview

Insert Format Table

B I $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$ $\frac{1}{11}$ $\frac{1}{12}$ $\frac{1}{13}$ $\frac{1}{14}$ $\frac{1}{15}$ $\frac{1}{16}$ $\frac{1}{17}$ $\frac{1}{18}$ $\frac{1}{19}$ $\frac{1}{20}$ $\frac{1}{21}$ $\frac{1}{22}$ $\frac{1}{23}$ $\frac{1}{24}$ $\frac{1}{25}$ $\frac{1}{26}$ $\frac{1}{27}$ $\frac{1}{28}$ $\frac{1}{29}$ $\frac{1}{30}$ $\frac{1}{31}$ $\frac{1}{32}$ $\frac{1}{33}$ $\frac{1}{34}$ $\frac{1}{35}$ $\frac{1}{36}$ $\frac{1}{37}$ $\frac{1}{38}$ $\frac{1}{39}$ $\frac{1}{40}$ $\frac{1}{41}$ $\frac{1}{42}$ $\frac{1}{43}$ $\frac{1}{44}$ $\frac{1}{45}$ $\frac{1}{46}$ $\frac{1}{47}$ $\frac{1}{48}$ $\frac{1}{49}$ $\frac{1}{50}$ $\frac{1}{51}$ $\frac{1}{52}$ $\frac{1}{53}$ $\frac{1}{54}$ $\frac{1}{55}$ $\frac{1}{56}$ $\frac{1}{57}$ $\frac{1}{58}$ $\frac{1}{59}$ $\frac{1}{60}$ $\frac{1}{61}$ $\frac{1}{62}$ $\frac{1}{63}$ $\frac{1}{64}$ $\frac{1}{65}$ $\frac{1}{66}$ $\frac{1}{67}$ $\frac{1}{68}$ $\frac{1}{69}$ $\frac{1}{70}$ $\frac{1}{71}$ $\frac{1}{72}$ $\frac{1}{73}$ $\frac{1}{74}$ $\frac{1}{75}$ $\frac{1}{76}$ $\frac{1}{77}$ $\frac{1}{78}$ $\frac{1}{79}$ $\frac{1}{80}$ $\frac{1}{81}$ $\frac{1}{82}$ $\frac{1}{83}$ $\frac{1}{84}$ $\frac{1}{85}$ $\frac{1}{86}$ $\frac{1}{87}$ $\frac{1}{88}$ $\frac{1}{89}$ $\frac{1}{90}$ $\frac{1}{91}$ $\frac{1}{92}$ $\frac{1}{93}$ $\frac{1}{94}$ $\frac{1}{95}$ $\frac{1}{96}$ $\frac{1}{97}$ $\frac{1}{98}$ $\frac{1}{99}$ $\frac{1}{100}$

Hi John, TAs are currently looking into this and will get back to you shortly,

Thanks,
Alice Wonderland

Submit Save Draft Cancel

- **Actions** dropdown only visible to instructors and author to **Edit** or **Delete** the post
- **Not required:**
 - Anonymous posting is not allowed/required
 - Time past since last modified
 - **Follow/Stop following**
 - **Good Question/Good Answer**
- If the post is a **Question** (instead of a **Note**)
 - Below the post, in a section labeled **Student's Answers**, display all answers from students (if any) including
 - Author of the answer
 - Timestamp of the answer
 - **Edit** button for instructors and author to edit the answer
 - **Action** dropdown allowing instructors and author to **Edit** or **Delete** the answer
 - If the question has not been answered, and the current user is a student, then the student can post an answer in a **WYSIWYG** editor
 - Below the student answers (if any), in a section labeled **Instructor's Answers**, display answers from instructors (if any) including
 - Author of the answer
 - Timestamp of the answer
 - **Edit** button for instructors to edit the answer
 - **Action** dropdown allowing instructors to **Edit** or **Delete** the answer
 - If the question has not been answered, and the current user is an instructor, then the instructor can post an answer in a **WYSIWYG** editor
- **Follow up Discussion (FUD)**
 - Under the answers (if any), **FUD** allows participants to enter a discussions with nested replies as shown here on the right
 - **Start a new followup discussion** field or textarea to start a new discussion
 - All discussions have
 - **Resolved** and **Unresolved** buttons to toggle on whether the discussion has been resolved
 - Author of the discussion
 - Timestamp of when the discussion started
 - The text of the discussion
 - **Action** dropdown allowing instructors and author to **Edit** or **Delete** the discussion
 - **Helpful** is not required
 - A **Reply** field or textarea allowing to reply to the discussion
 - **Replies** that contain
 - Author of the reply
 - Timestamp of the reply
 - Text of the reply
 - **Action** dropdown allowing instructors and author to **Edit** or **Delete** the reply
 - **Good comment** is not required
 - A **Reply** field or textarea allowing to reply to the reply

The screenshot shows a 'followup discussions' interface. At the top, there is a note: 'the instructors' answer, where instructors collectively construct a single answer. These will be dynamic when we introduce JavaScript later. Right now everything is hardcoded and fixed. Thanks, Jose'. Below this is a card for a 'good answer' posted by Jose Annunziato 31 seconds ago. The card includes an 'Edit' button, a timestamp, and an 'Actions' dropdown. Below the card is a 'followup discussions' section for 'lingering questions and comments'. It shows a message from Abby Hofmann (@36.1f) about alignment of elements, followed by a reply from Jose Annunziato asking for implementation of specific formatting. The interface includes buttons for 'Resolved' and 'Unresolved', and fields for 'Reply to this followup discussion', 'Start a new followup discussion', and 'Compose a new followup discussion'.

Class at a Glance Screen

If no post is selected the **PS** displays ***Class at a Glance Screen (CGS)*** displaying the following meta information as shown here on the right

- Number of unread posts or ***no unread posts***
 - Number of unanswered posts or ***no unanswered posts***
 - Total number of posts
 - Number of instructor responses
 - Number of student responses
 - Number of students enrolled
 - Ignore everything else in the screen
 - ***Not required:***
 - Number of unanswered followups
 - Total contributions
 - Average time of response time in hours



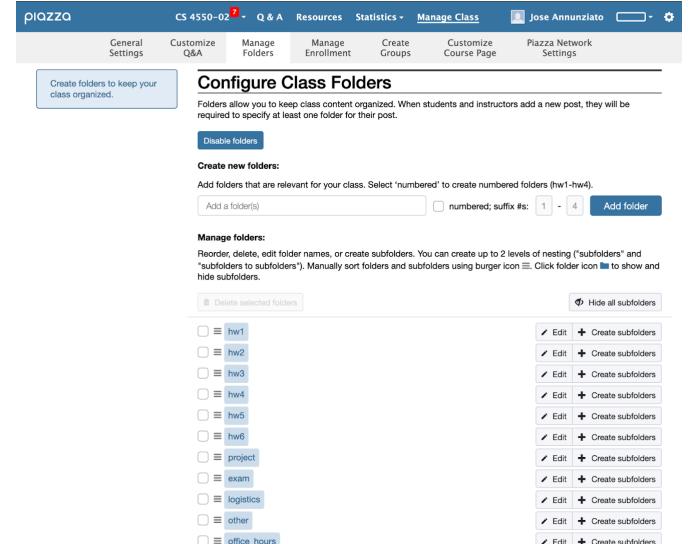
Manage Class Screen (MCS)

- Clicking **Manage Class Tab (MCT)** reveals the the **Manage Class Screen (MCS)** as shown here on the right
 - Only instructors can see and click the **MCT**
 - Only instructors can navigate to the **MCS**, e.g., the URL or hash to **MCS** is protected
 - The **MCS** shows 7 tabs of which you must implement the following
 - **Manage Folders Tab (MFT)**
 - Clicking the **MFT** reveals the **Manage Folder Screen (MFS)** described later in this document



Manage Folders Screen (MFS)

- Clicking the **MFT** reveals the **Manage Folders Screen (MFS)** as shown here on the right
 - The blue description box on the left is not required
 - Descriptions and other labels and text can be customized at your discretion
 - The title can be one of the following
 - **Configure Class Folders** as shown
 - **Manage Folders**
 - The default folders are as shown here on the right, e.g., **hw1, hw2, hw3, ..., project, exam, logistics, other, office_hours**
 - To add a new folder, instructors type the name of the new folder in a field and click **Add Folder**
 - The screenshot suggests you can add multiple folders at once, but it is not required. You are only required to be able to add one folder at a time
 - The list of folders updates immediately after adding a new folder, and list persists if screen is refreshed
 - To delete folders select folders to be deleted and click on **Delete selected folders**
 - To edit the name of a folder
 - Click **Edit** next to the folder to be edited
 - Folder name is replaced by an input field



- **Edit** button is replaced by buttons **Save**, and **Cancel**
- Clicking **Save** replaces **Save** and **Cancel** buttons with **Edit** and input field is replaced with the new folder name
- Clicking **Cancel** replaces **Save** and **Cancel** buttons with **Edit** and input field is replaced with original folder name
- Not required:
 - Disable folders
 - Create subfolders
 - Numbered; suffix
 - Hide all subfolders
 - Rearranging order of folders

General Requirements

- All fields must be clearly labeled. Use the label in the screenshots unless otherwise stated
 - Additional descriptive text explaining a particular field or feature is optional
 - Add placeholders on input fields and textareas as shown
 - You can reuse text as provided in the screenshots or create your own
- The type of the input field must be appropriate for the type of information being requested. For example
 - Input type date - used to request a date
 - Input type number - used to request a numeric value
 - Input type email - used to request an email
 - Textarea - used to request long form text
 - Single select dropdowns or radio buttons - used to request single option
 - Multiple select dropdowns or check box buttons - used to request multiple options
- Look and feel does not have to match the screen shots provided, but must capture the intended feature. For instance
- Any field or feature not explicitly described in this document is not required, but feel free to implement at your discretion
- If a tab or folder or post is currently selected, they must be highlighted to signify that they are selected. This can be done by underlining the text, or bolding the text, or changing the foreground and/or background color
- All settings, selections, and data is persisted and re-rendered for user feedback, e.g., if an instructor adds folders in **Manage Folders**, logs out, and then logs back in, then the new folders are still there. If a student answered a question or replied to a followup, if they logout, and then log back in, if they visit the same question, they can see the answers and replies they created.