Hamdard University Department of Computing Final Year Project



A Website for DoC, Hamdard University FYP-001/FL24 Software Design Specifications

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Document Sign off Sheet

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Revision History

Date	Version	Description	Author
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Definition of Terms, Acronyms, and Abbreviations

Term	Description	
DoC	Department of Computing	
FYP	Final Year Project	
CMS	Content Management System	
LMS	Learning Management System	
Dynamic Website	A website that updates its content dynamically based on user interaction or data changes.	
Chatbot	An AI-based tool designed to provide automated responses to frequently asked questions.	
Timetable	A schedule of classes and activities organized by section and semester.	
Database	An organized collection of data stored electronically for easy access, management, and retrieval.	
SQL	Structured Query Language, used for managing and querying relational databases.	
Prototype Methodology	A software development approach focused on iterative refinement based on user feedback.	
Admission Form	A form used to collect details from prospective students applying to the department.	
Complaint Box	A feature allowing users to submit feedback or report issues for resolution.	
Library Database	An online catalog providing information about books and resources available in the library.	
Frontend	The part of a website that users interact with directly, including design and layout.	
Backend	The server-side logic of a website that handles data storage, processing, and functionality.	

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1 Introduction

1.1 Purpose of Document

The purpose of this Software Designs Specification (SDS) document is to describe everything needed to build a website for the Department of Computing at Hamdard University. This website will make it easy for students, faculty, and administrators to access information, perform tasks, and stay updated. Here's why this document is important:

- 1. Clarify What Needs to Be Built It explains all the features and tools the website will include, like subpages for programs (Computer Science, AI, etc.), faculty details, timetables, announcements, and automated forms.
- 2. Centralize All Requirements It gathers all the technical and functional details in one place, ensuring everyone working on the project understands the goals and how the website should function. 3. Improve Communication

The website will allow:

- Students to access information easily.
- Faculty and administrators to make announcements and manage tasks efficiently.
- A chatbot to answer user questions, connected to the main university website.
- 4. Save Time with Automation It defines how various forms (admission, applications, fee concessions, complaints) will be submitted and automatically emailed to the relevant person. If there's no response in 24 hours, the issue will escalate to the DEAN.
- 5. Guide the Technical Team It specifies the tools, software, and hardware required to build the website, ensuring the development team knows what technology to use.
- 6. Define Roles and Responsibilities It documents who can do what on the website (e.g., only the DEAN and HOD can post announcements, while coordinators can update timetables).

2.1 Intended Audience

The purpose of this project is to:

- 1. Current students and faculty of computing department at Hamdard University.
- 2. Prospective students interested in the Department of Computing and its sub-disciplines.
- 3. Visitors seeking information about FEST and its computing department.

2.2 Document Convention

Font: Times New Roman

Font Size: 11

Diagrams: UML diagrams are used to represent the system design visually.

2.3 Project Overview

The Department of Computing website is designed to provide a centralized platform for managing academic information and processes. Key functionalities include:

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- Sub-web pages for Software Engineering, Computer Science, Artificial Intelligence, and Computer Systems Engineering.
- Automated form submission for ease of administration.
- A complaint system for direct communication with the Chairman and HOD.
- Announcement areas managed by authorized personnel.
- A chatbot to assist users with queries related to Hamdard University.

The development employs modern web technologies such as HTML, CSS, JavaScript, React.js, Node.js, or Python, with a robust database backend (MySQL or PostgreSQL).

2.4 Scope

Department Overview Pages: Comprehensive pages dedicated to Computer Science, and Software Engineering, Artificial Intelligence each detailing faculty members, batch advisors, coordinators, and the department head.

Semester Timetables: A management system for viewing and updating semester timetables, allowing Coordinators and Heads of Departments (HODs) to make necessary changes.

Forms Automation: Online forms, including general application forms, fee concession requests, attendance forms, and complaint submissions, which will be automatically forwarded to the relevant faculty or administrators.

Admission Form: A dedicated admissions form that will be submitted to Hamdard University admission office.

Complaint Box: A feature that allows students to send complaints directly to both the HOD and the Dean.

Announcement System: A portal where only the HOD and Dean can log in to make announcements to students and faculty.

Chatbot Integration: A chatbot that connects to the Hamdard University website to provide responses to frequently asked questions and queries, leveraging the university's existing information.

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2 Design Considerations

2.1 Assumptions and Dependencies

Modular Architecture: Ensuring seamless integration and testing in a scalable modular design. Technology Compatibility: Managing potential issues between frameworks like React.js, Node.js/Django, and databases.

UI/UX Challenges: Creating accessible, responsive interfaces across devices per WCAG guidelines. *Database Optimization*: Balancing MongoDB (unstructured) and PostgreSQL (relational) data efficiently.

Concurrency Management: Handling multiple users with efficient backend programming and load balancing.

Security Measures: Implementing robust access control, encryption, and activity logging without performance loss.

Scalability: *Preparing the system for future enhancements like advanced AI and real-time notifications.*

Error Recovery: Designing systems for graceful failure handling and maintaining data integrity.

Testing Integration: Ensuring components are testable during iterative development.

Resource Constraints: Addressing limited developer resources with streamlined workflows and tool reliance.

2.2 Risks and Volatile Areas

Requirement Changes: New feature requests may arise. Mitigation: Use modular design and agile methods.

Technology Risks: Updates to frameworks may cause compatibility issues. Mitigation: Use well-supported tools and monitor trends.

Performance Bottlenecks: High user loads or database queries may slow the system. Mitigation: Conduct load testing and optimize queries.

Security Vulnerabilities: Risks of breaches or attacks. Mitigation: Enforce strict security protocols and conduct audits.

Resource Constraints: Limited skilled personnel could delay progress. Mitigation: Cross-train staff and outsource tasks as needed.

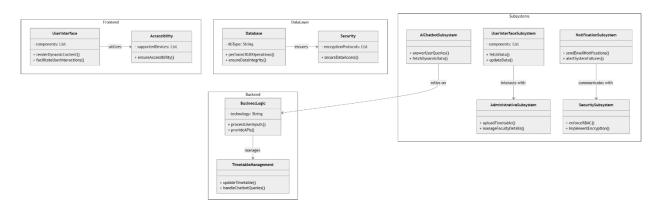
Integration Challenges: Issues with connecting APIs or external systems. Mitigation: Plan robust integrations and test early.

Data Inconsistencies: Outdated or incorrect data may affect usability. Mitigation: Automate validation and verify sources regularly.

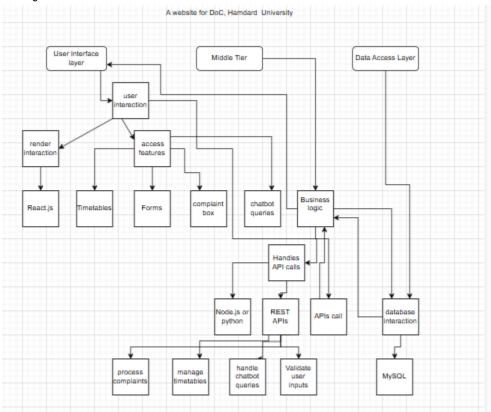
Scalability Issues: Future needs might outgrow current design. Mitigation: Use scalable cloud-based and microservices architecture.

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System Architecture



2.3 Software Architecture



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3 Design Strategy

1. Future System Extension or Enhancement

• Design Strategy:

- Modular architecture ensures that components can be added or replaced without significant impact on the overall system.
- Use of APIs enables the integration of new features such as advanced analytics, mobile applications, or new user interfaces.
- The system is designed to support additional sub-webpages for new departments or courses with minimal effort.
- Advanced AI models can be incorporated into the chatbot in future iterations.

• Reasoning:

 Aligning with long-term scalability goals ensures the system remains relevant and adaptable to changing requirements.

• Trade-offs:

- o Initial design complexity is increased to accommodate modularity.
- Slightly higher development time due to the need for generalized and extensible components.

2. System Reuse

• Design Strategy:

- O Use of reusable components such as:
 - React.js components for consistent UI elements.
 - RESTful APIs for handling data across multiple client applications (e.g., web and mobile).
 - Common utility modules for logging, error handling, and data validation.
- Database schemas designed for flexibility and reusability across different modules.

• Reasoning:

- Reusable components save time and resources during both initial development and future updates.
- Encourages consistency across the system.

Trade-offs:

- o Slightly higher upfront effort to ensure components are generic and reusable.
- o Potential underuse of some reusable components in the initial deployment phase.

3. User Interface Paradigms

• Design Strategy:

- o The user interface follows a **responsive and user-friendly design**:
 - WCAG (Web Content Accessibility Guidelines) compliance ensures accessibility for all users, including those with disabilities.
 - A mobile-first approach using frameworks like Bootstrap or Material-UI ensures compatibility across devices.
 - Clear navigation structure reduces the learning curve for users.
 - Contextual help such as tooltips and a chatbot improves user interaction.

• Reasoning:

- o A well-designed UI is essential for user satisfaction and adoption of the system.
- o Accessibility ensures the platform can be used by a broader audience.

• Trade-offs:

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- Increased development time for ensuring cross-platform compatibility and accessibility compliance.
- Requires additional testing across a variety of devices and screen sizes.

4. Data Management (Storage, Distribution, Persistence)

• Design Strategy:

- Hybrid database approach:
 - MySQL for structured relational data like timetables and user information.
- Use of database replication and periodic backups to ensure high availability and data persistence.
- APIs for efficient data distribution and retrieval.
- Optimized indexing and query mechanisms to handle large datasets.

• Reasoning:

- A hybrid database design allows the system to handle diverse data types efficiently.
- Regular backups and replication ensure data security and availability.

• Trade-offs:

- o Increased system complexity due to managing two database systems.
- Higher resource requirements for maintaining database synchronization and backups.

5. Concurrency and Synchronization

Design Strategy:

- Use of asynchronous programming in **Node.js** or **Django** to handle multiple user requests simultaneously.
- Synchronization mechanisms such as:
 - Optimistic concurrency control to prevent conflicts in simultaneous database updates.
 - Distributed locks or similar mechanisms to ensure data consistency.
- Load balancing techniques to distribute requests evenly across servers.

• Reasoning:

- High concurrency support ensures smooth operation during peak usage times.
- o Synchronization mechanisms maintain data integrity.

• Trade-offs:

- o Higher resource utilization due to concurrency management.
- Slight increase in system latency when synchronization mechanisms are employed.

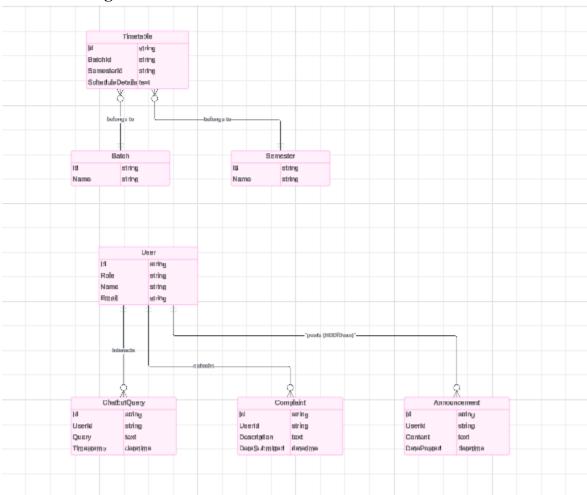
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4 Detailed System Design

4.1 Design Class Diagram

4.2 Database Design

4.2.1 ER Diagram



Timetable:

- *Id:* Unique identifier for each timetable record.
- *BatchId:* The ID of the batch associated with the timetable.
- SemesterId: The ID of the semester associated with the timetable.
- ScheduleDetails: Details of the timetable schedule.

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Batch:

- *Id:* Unique identifier for each batch record.
- Name: Name of the batch.

Semester:

- *Id:* Unique identifier for each semester record.
- Name: Name of the semester.

User Table

- *Id:* Unique identifier for each user.
- Role: User's role (e.g., admin, customer).
- Name: User's name.
- Email: User's email address.

ChatbotQuery Table

- *Id*: *Unique identifier for each chatbot query.*
- *UserId:* Foreign key referencing the User table.
- Query: The question asked by the user.
- *Timestamp:* The time the query was submitted.

Complaint Table

- *Id:* Unique identifier for each complaint.
- *UserId:* Foreign key referencing the User table.
- **Description:** Text describing the complaint.
- **DateSubmitted:** Date the complaint was submitted.

Announcement Table

- *Id:* Unique identifier for each announcement.
- *UserId:* Foreign key referencing the User table.
- Content: The announcement text.
- **DatePosted:** Date the announcement was posted.

Relationships:

- Timetable has a one-to-many relationship with Batch, meaning a single timetable can belong to multiple batches.
- **Timetable** has a **one-to-many** relationship with **Semester**, meaning a single timetable can be associated with multiple semesters
- User has a one-to-many relationship with ChatbotQuery, meaning one user can submit multiple queries.
- User has a one-to-many relationship with Complaint, meaning one user can submit multiple complaints.
- User has a one-to-many relationship with Announcement, meaning one user can post multiple announcements.

4.2.2 Data Dictionary

Entity	Attribute	Description	Type	Constraints	
User	user_id (PK)	Unique identifier for	INT	Primary Key,	
		users		Auto-increment	
	name	Name of the user	VARCHAR(255)	Not Null	
	email	Email address	VARCHAR(255)	Not Null, Unique	

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	password	Password for authentication	VARCHAR(255)	Not Null
	role	Role of the user (e.g., student, faculty, admin)	ENUM	Values: 'student', 'faculty', etc.
Complaint	complaint_id (PK)	Unique ID for complaints	INT	Primary Key, Auto-increment
	user_id (FK)	User who submitted the complaint	INT	Foreign Key to User.user_id
	description	Description of the complaint	TEXT	Not Null
	status	Current status of the complaint	ENUM	Values: 'open', 'closed', etc.
	created_at	Timestamp for when the complaint was submitted	DATETIME	Not Null
Timetable	timetable_id (PK)	Unique ID for timetables	INT	Primary Key, Auto-increment
	batch	Batch associated with the timetable	VARCHAR(50)	Not Null
	semester	Semester for the timetable	VARCHAR(50)	Not Null
	courses	List of courses included	JSON	Not Null
Announcement	announcement_id (PK)	Unique ID for announcements	INT	Primary Key, Auto-increment
	author_id (FK)	User who created the announcement	INT	Foreign Key to User.user_id
	message	Content of the announcement	TEXT	Not Null
	created_at	Timestamp for when the announcement was created	DATETIME	Not Null
Chatbot Query	query_id (PK)	Unique ID for chatbot queries	INT	Primary Key, Auto-increment
	user_id (FK)	User interacting with the chatbot	INT	Foreign Key to User.user_id
	query	User's query	TEXT	Not Null
	response	Chatbot's response	TEXT	Not Null
	timestamp	Timestamp of the interaction	DATETIME	Not Null

4.2.2.1 Data 1

Data 1			
Name	Give primary name of the data or control item, the data store or an external entity.		
Alias	System User, Account Holder		

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Where-used/how-	Used in authentication processes (input to login).					
used	Referenced in complaints, announcements, and chatbot interactions.					
	Acts as a control entity f	Acts as a control entity for role-based access.				
Content	Represents all users (students, faculty, admin) interacting with the system.					
description						
Column Name	Description of the	Type	Length	Null	Default	Key Type
	Column			able	Value	
user_id	Unique identifier for	INT	-	No	Auto-	PK
	users				increment	
name	Name of the user	VARCHAR	255	No	-	
email	Email address	VARCHAR	255	No	-	UNIQUE
password	Password for	VARCHAR	255	No	-	
	authentication					
role	Role of the user	ENUM	-	No	'student'	

4.2.2.2 Data 2

	Data 2						
Name	Complaint						
Alias	Feedback, Issue Log						
Where- used/how- used	 Input for complaint submission form. Stored for tracking and resolution. Output for admin reviews. 						
Content description	Tracks issues or feedbac	ck submitted by ı	isers.				
Column Name	Description of the Column	Type	Length	Null able	Default Value	Key Type	
Complaint _id	Unique ID for complaints	INT	-	No	Auto-increment	PK	
user_id	User who submitted the complaint	INT		No	-	FK	
description	Description of the complaint	TEXT		No	-		
Status	Current status of the complaint	ENUM		No	'OPEN'		
Created_at	Timestamp for complaint submission	DATETIME	-	No	CURRENT_TIMESTAMP		

4.2.2.3 Data 3

Data 3	
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Name Alias		Timetable Schedule, Academic Calendar						
Content description		Manages academic schedules for different semesters and batches						
Column Name	Description	Type	Length	Null able	Default Value	Key Type		
timetable_i d	Unique ID for timetabl	es INT		No		Auto- increment PK		
batch	Semester for the timetable	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	50	No	-			
semester	Semester for the timetable		50	No	-			
courses	List of cours included	es JSON		No	-			

4.2.2.4

Name	Announcement News Update, Notification Stores announcements for the department.						
Alias	News Update, Notification						
Where-used/how- used	 Created by admin or HOD for department-wide updates. Accessible to students and faculty. 						
Content description	Stores announcements for the department.						
Column Name	Description of the Column	Туре	Length	Null able	Default Value	Key Type	
announcement_ id	Unique ID for announcements	INT	-	No	Auto-increment	PK	
author_id	User who created the announcement	INT	-	No	-	FK	

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message	Content of the announcement	TEXT	-	No	-	
created_at	Timestamp of announcement creation	DATETIME	255	No	CURRENT_TIMESTAMP	

4.2.2.5 **Data 5**

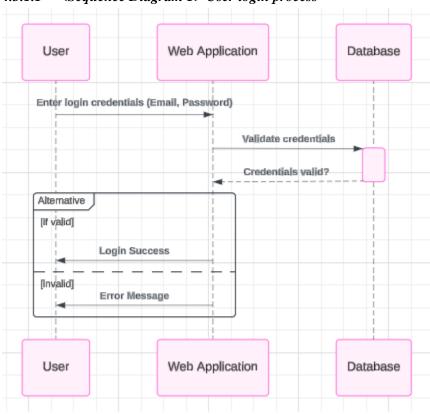
Name	Chatbot Query						
Alias	FAQ Interaction Log						
Where- used/how-used	Logs user interactions with the chatbot. • Provides responses to FAQs. • Used for improving chatbot functionality.						
Content description	Tracks user queries and	l chatbot respon	ises.				
Column Name	Description of the Column	Type	Length	Null able	Default Value	Key Type	
query_id	Unique ID for chatbot queries	INT	-	No	Auto-increment	PK	
user_id	User interacting with the chatbot	INT	-	No	-	FK	
query	User's query	TEXT		No	-		
response	Chatbot's response	TEXT		No	-		
timestamp	Timestamp of interaction	DATETIME	-	No	CURRENT_TIMESTAMP		

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4.3 Application Design

4.3.1 Sequence Diagram

4.3.1.1 <Sequence Diagram 1> User login process



Explanation:

User enters login credentials (Email, Password)

Web Application sends credentials to Database for validation.

Database validates credentials.

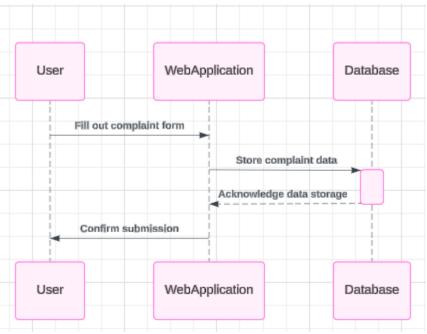
Database sends validation result to Web Application.

If credentials are valid, the Web Application sends a "Login Success" message to the User.

If credentials are invalid, the Web Application sends an "Error Message" to the User.

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4.3.1.2 <Sequence Diagram 2>Complaint Submission



Explanation:

User fills out complaint form.

Web Application sends complaint data to the Database.

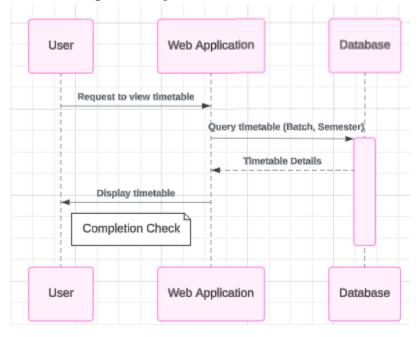
Database stores the complaint data.

Database sends an acknowledgment message to the Web Application.

Web Application sends a "Confirm submission" message to the User.

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4.3.1.3 <Sequence Diagram n>Timetable View



Explanation:

User requests to view timetable.

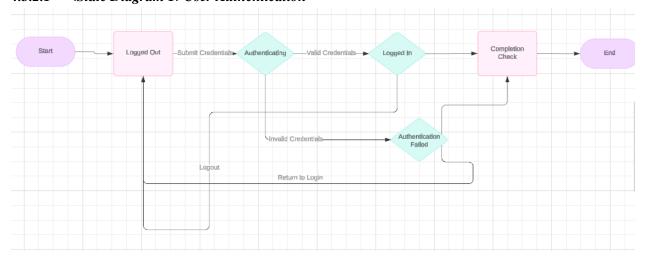
Web Application sends a request to the Database to query the timetable for the specified batch and semester.

Database fetches the timetable details and sends them back to the Web Application.

Web Application displays the timetable to the User.

4.3.2 State Diagram

4.3.2.1 <State Diagram 1>User Authentication



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Explanation: Start: The process begins.

Logged Out: The user is not logged in.

Submit Credentials: The user provides their login credentials. Authenticating: The system validates the provided credentials.

• Valid Credentials: The credentials are correct. The process continues.

• Invalid Credentials: The credentials are incorrect. The user is redirected to the Login page.

Logged In: The user is successfully logged in.

Completion Check: The system verifies the user's login status.

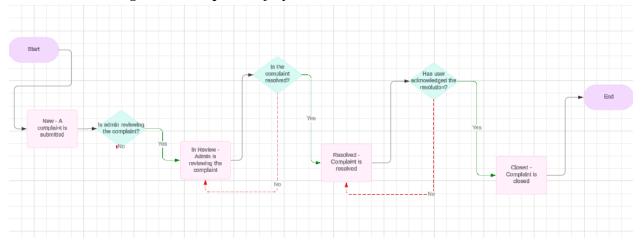
End: The process is complete.

Authentication Failed: If the login fails, the user is presented with an authentication failure message.

Logout: The user can log out of the system, which takes them back to the Logged Out state.

Return to Login: The user is redirected to the Login page after an unsuccessful login attempt.

4.3.2.2 <State Diagram 2> Complaint Lifecycle



Explanation:

Start

A new complaint is submitted

Is admin reviewing the complaint?

- No: The complaint is in review.
- **Yes:** The complaint is resolved.

Is the complaint resolved?

- No: The complaint is in review.
- **Yes:** Has the user acknowledged the resolution?

Has the user acknowledged the resolution?

- No: The complaint is resolved.
- Yes: The complaint is closed.

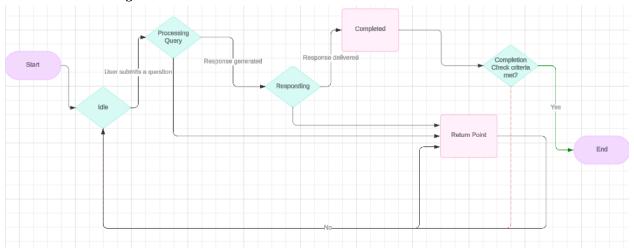
Closed - Complaint is closed

• This is the end of the flow.

End

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4.3.2.3 <State Diagram > Chatbot Interaction



Explanation:

Start: The process starts with a user submitting a question.

Idle: The system is in an idle state, waiting for a user query.

Processing Query: Once a question is submitted, the system moves into the "Processing Query" state, where the question is processed.

Responding: The system generates a response to the question and enters the "Responding" state.

Completed: The system delivers the response to the user and marks the query as "Completed".

Completion Check Criteria Met? The system checks whether all completion criteria have been met.

End: If the completion criteria are met, the process ends.

Return Point: If the completion criteria are not met, the process returns to the "Return Point" and continues to cycle through the process until the criteria are met.

4.4 GUI Design

- 4.4.1 < Use Case Name Mock Screen 1>
- 4.4.2 <Use Case Name Mock Screen 2>

..

4.4.3 < Use Case Name - Mock Screen 3>

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5 References

[This section should provide a complete list of all documents referenced at specific point in time. Each document should be identified by title, report number (if applicable), date, and publishing organization. Specify the sources from which the references can be obtained (This section is like the bibliography in a published book)].

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6 Appendices

[Include supporting detail that would be too distracting to include in the main body of the document.]