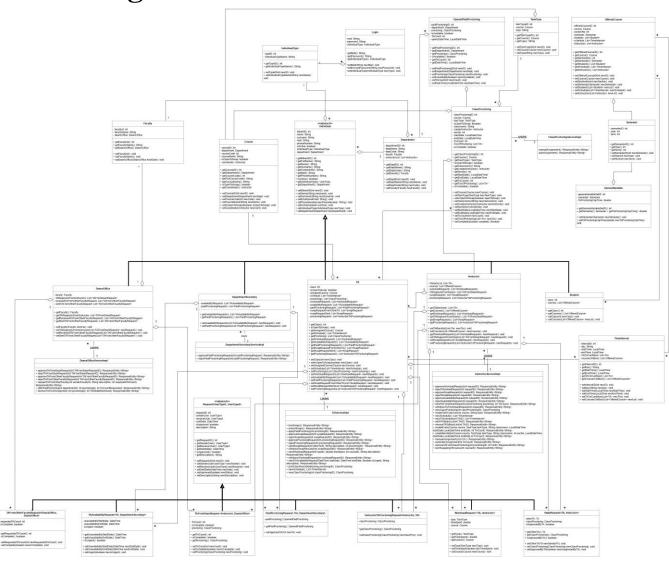
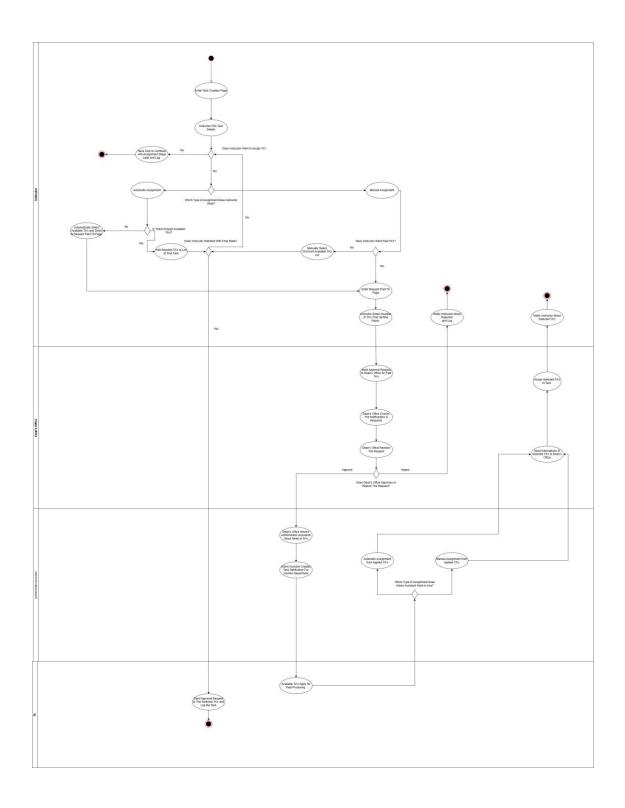
Class Diagram

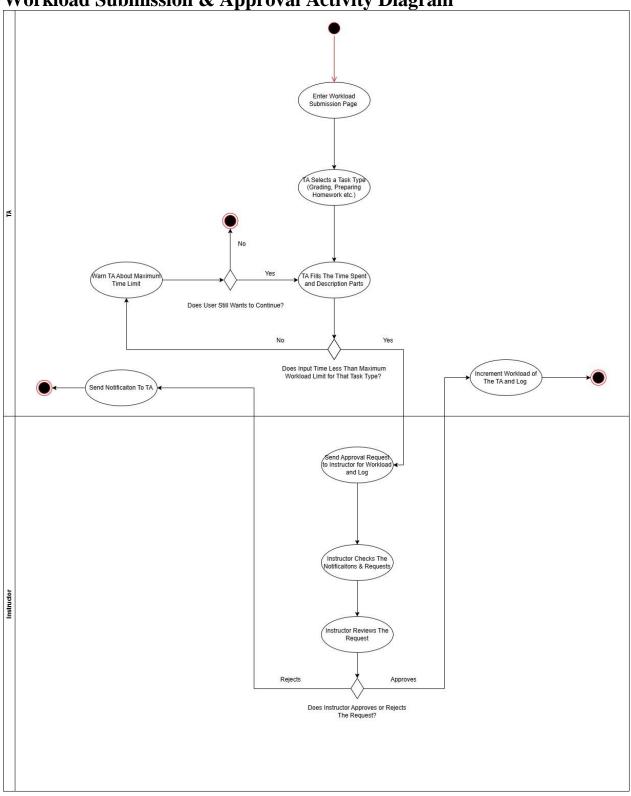


Activity Diagrams:

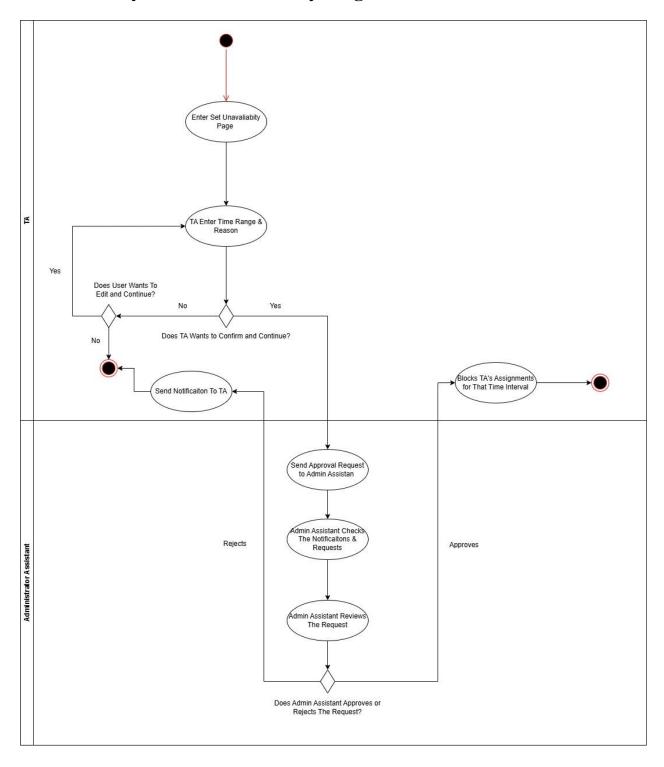
Task Creation & Assigning Activity Diagram



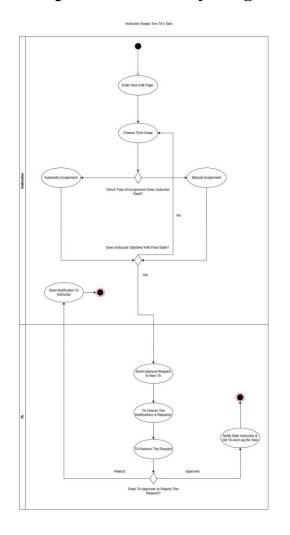
Workload Submission & Approval Activity Diagram

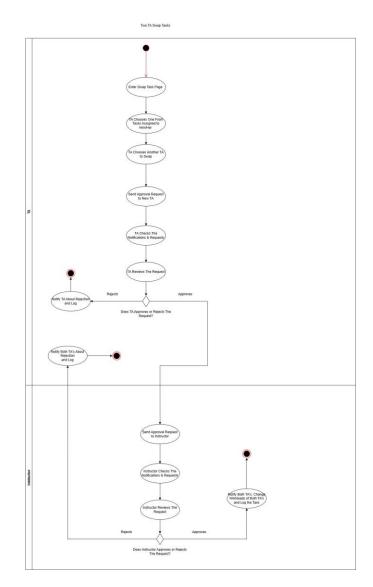


Unavailability Declaration Activity Diagram



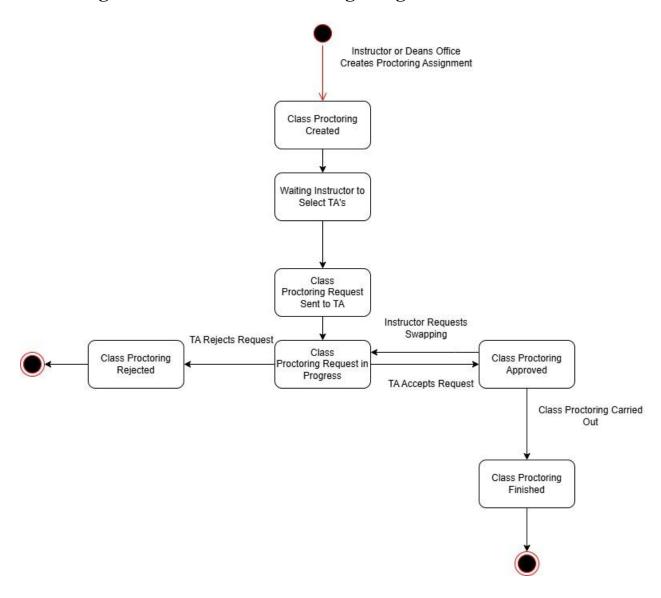
Swap Process Activity Diagram



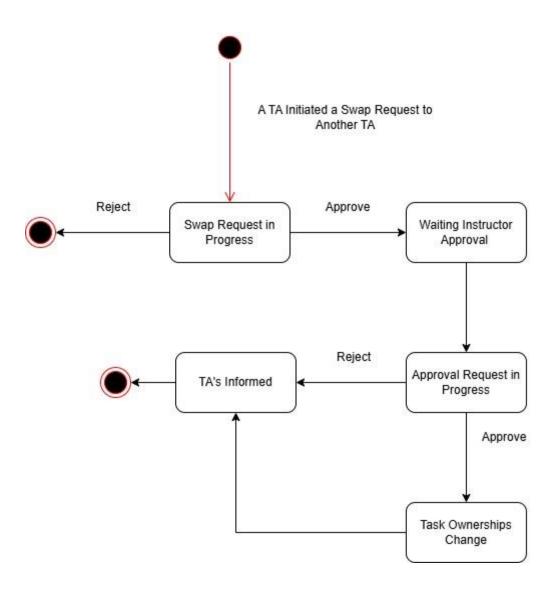


State Diagrams:

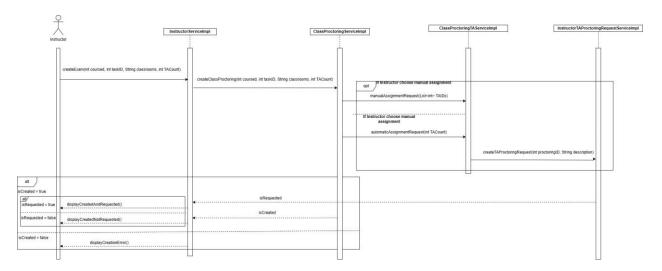
State Diagram for TA Class Proctoring Assignment:



State Diagram for TA Swap Proctoring:



Sequence Diagrams



Non-Functional Requirements Report

1. Performance Requirements

- The system should handle at least 100 concurrent users without performance degradation.
- Response time for user actions should be less than 2 seconds under normal load.
- Batch operations (such as importing data) should complete within 10 minutes for datasets of up to 10,000 records.

2. Scalability Requirements

- The system should support future scalability to accommodate additional users, courses, and departments.
- Should be able to handle at least a 50% increase in TA workload without major system modifications.

3. Security Requirements

- Authentication should be role-based (TAs, Faculty, Department Staff, Department Chair, Dean, Admin).
- All user data should be encrypted in transit using TLS 1.2 or higher.
- Sensitive data such as user credentials should be stored using industry-standard encryption techniques.
- The system should log all login attempts, assignments, and modifications.

4. Usability Requirements

- The system should have an intuitive and easy-to-use web-based user interface.
- Navigation should be clear, with a maximum of 3 clicks needed to access primary functions.
- The system should provide contextual help for users.

5. Maintainability Requirements

- The system should be modular to allow for easy updates and bug fixes.
- The codebase should follow best practices and be well-documented.
- Changes should be deployable without downtime for users.

6. Logging & Monitoring

- All system actions, including logins, assignments, and data modifications, should be logged.
- Logs should be accessible to authorized personnel and stored securely.
- The system should send alerts in case of critical failures.

7. Data Integrity Requirements

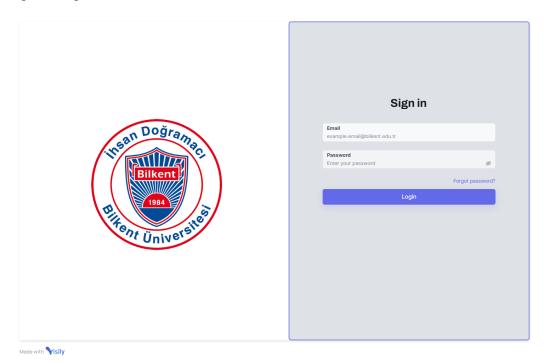
- The system should prevent duplicate entries for students, TAs, and courses.
- Data validation rules should ensure consistency and correctness.

8. System Constraints

- The system must operate on Linux.
- It must use MySQL as the database backend.
- It must be deployed on Apache2 web servers.

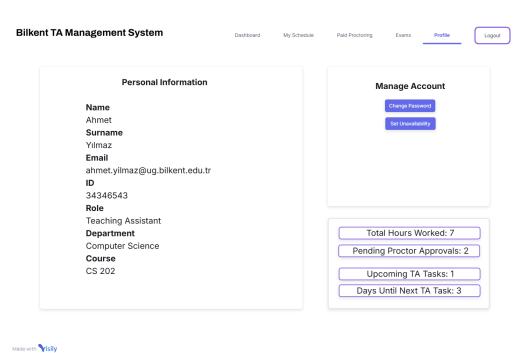
UI Mock Ups

Sign in Page

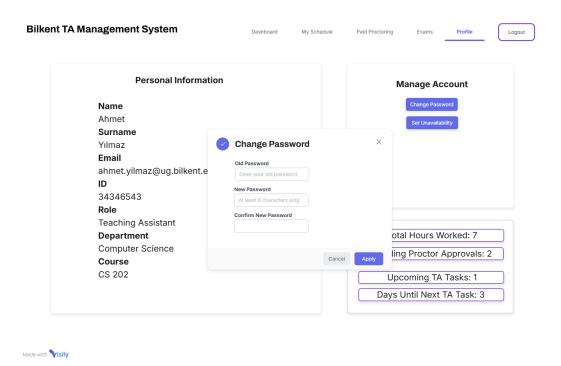


TA Pages

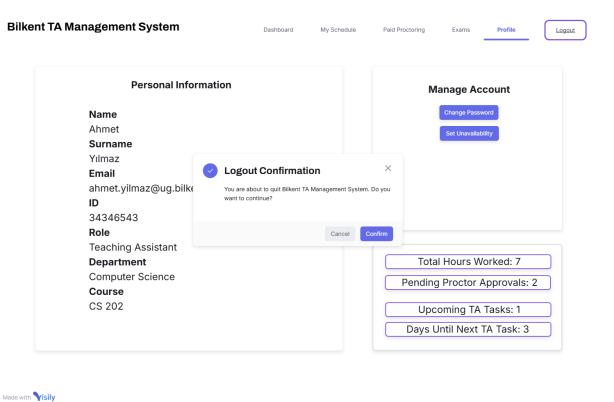
Ta Profile



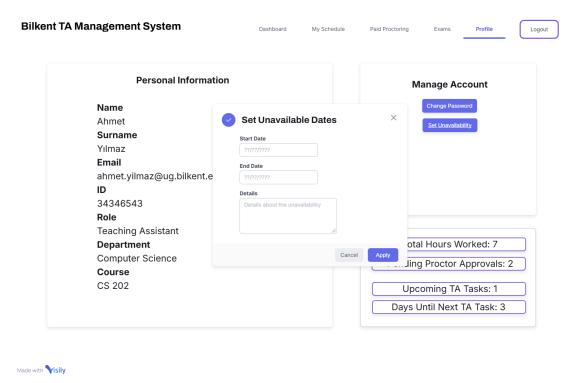
TA Profile Change Password



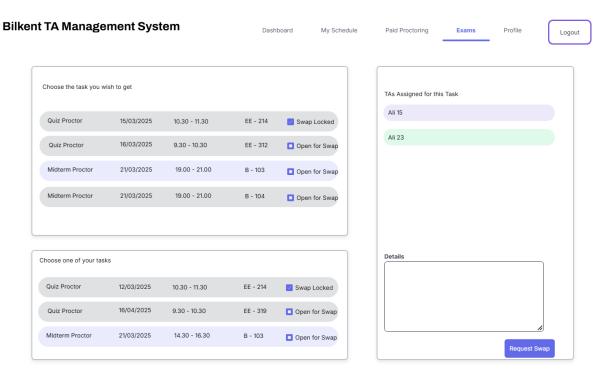
Log Out



Unavailabilty Request

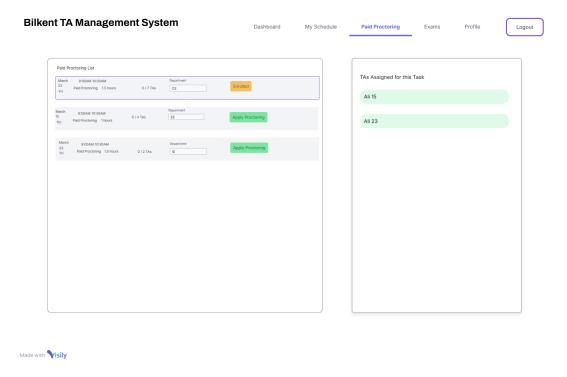


Exam Page

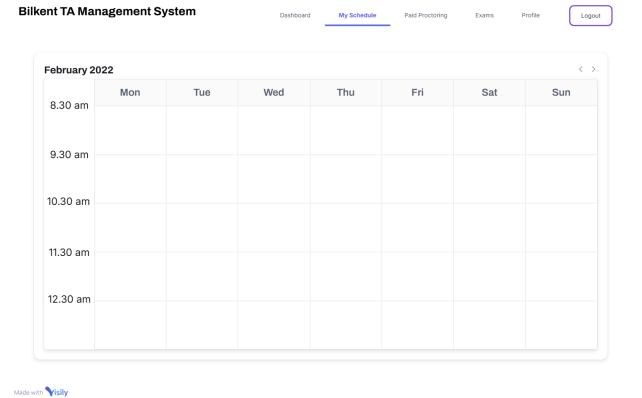




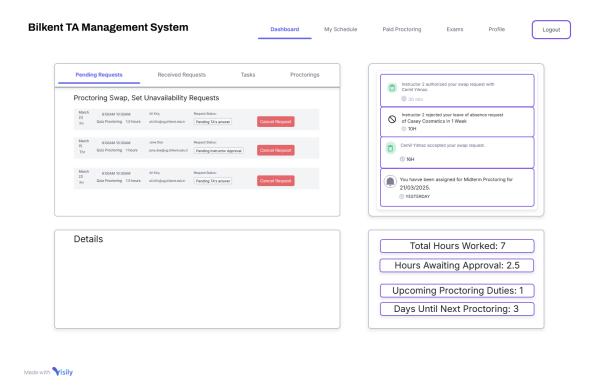
Apply Paid Proctoring - TA Page



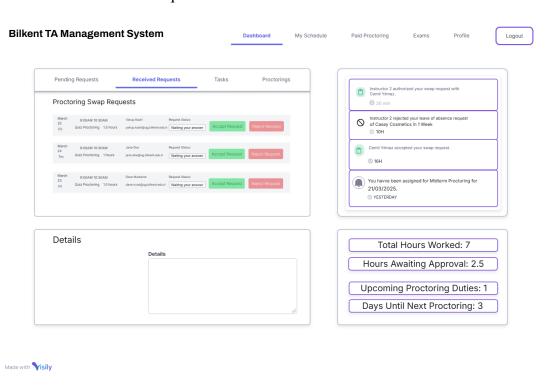
Weekly Schedule



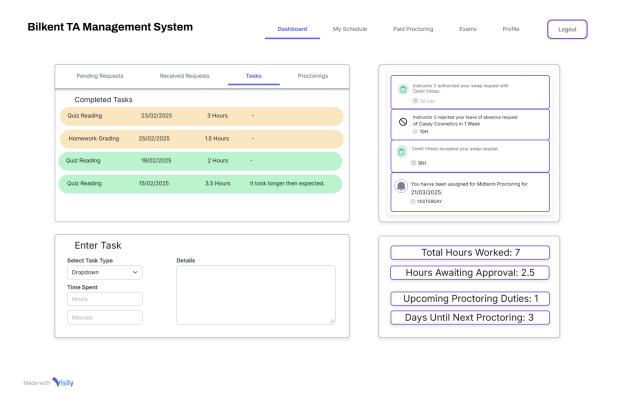
Dash Board - Pending Request



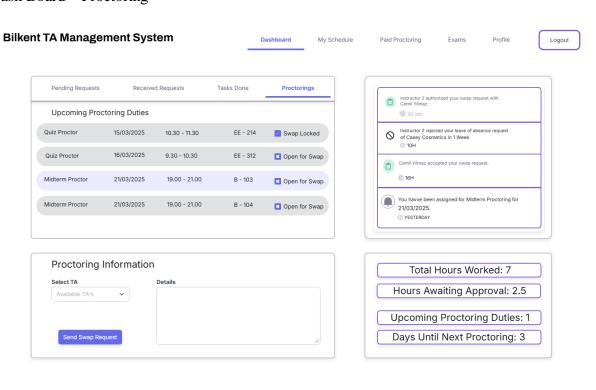
Dash Board - Received Request



Dash Board - Tasks



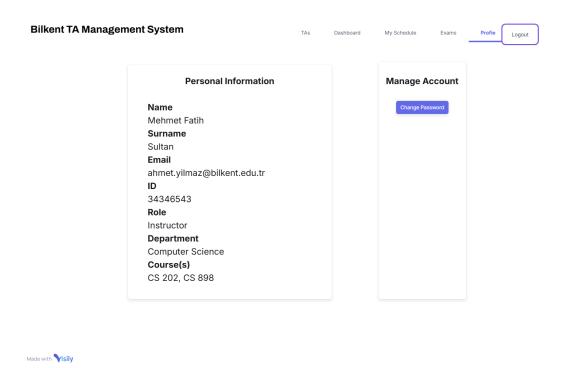
Dash Board – Proctoring



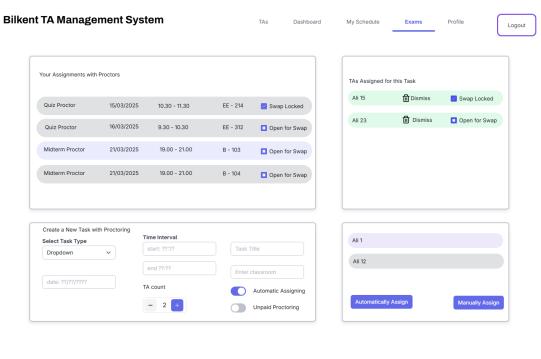


Instructors Pages

Instructor Profile



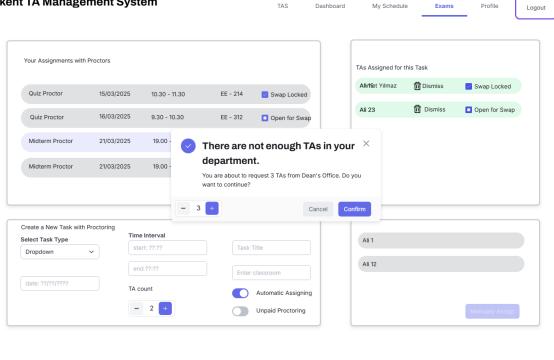
Instructor Exams & Creating Task Types





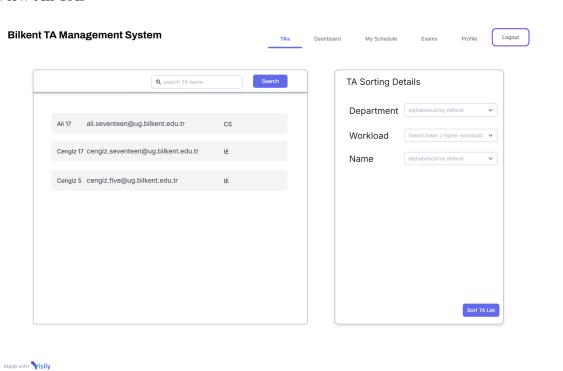
Request TA from Dean

Bilkent TA Management System

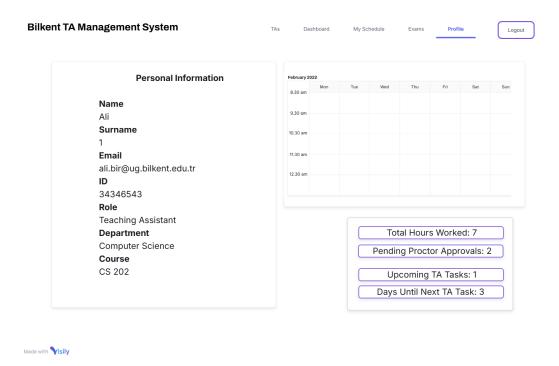


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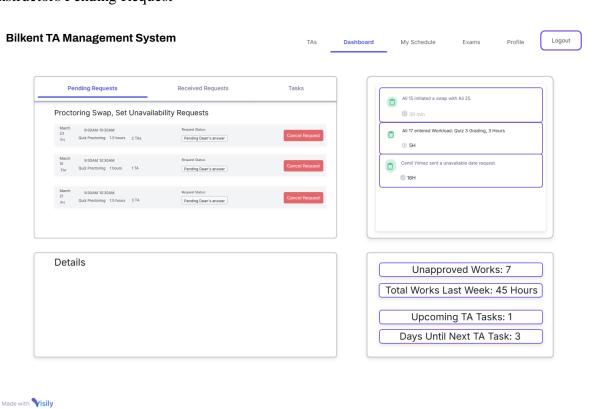
View All TAs



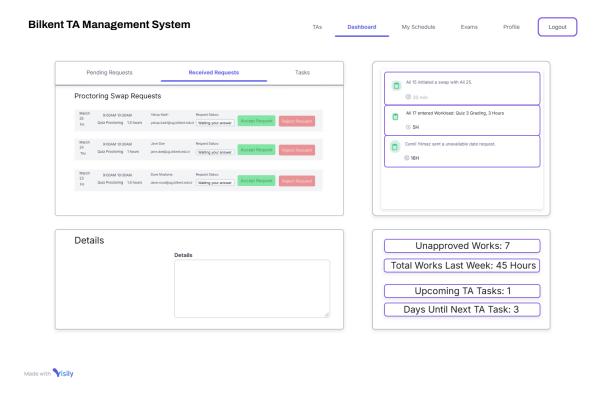
Viewing TAs Profile



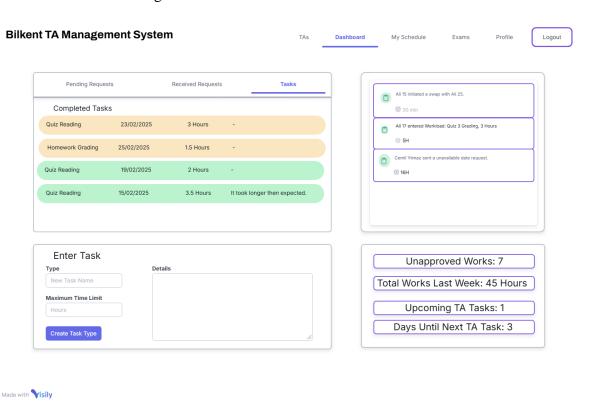
Instructors Pending Request



Instructors Received Request

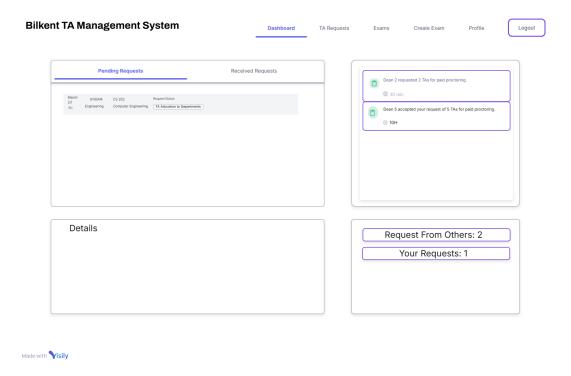


Instructor Tasks View Page

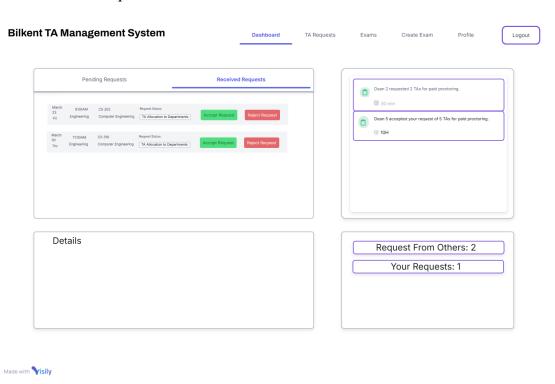


Deans Office Pages

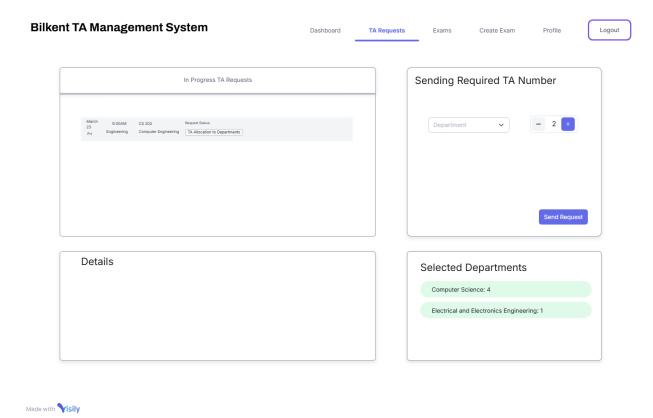
Dean Pending Requests



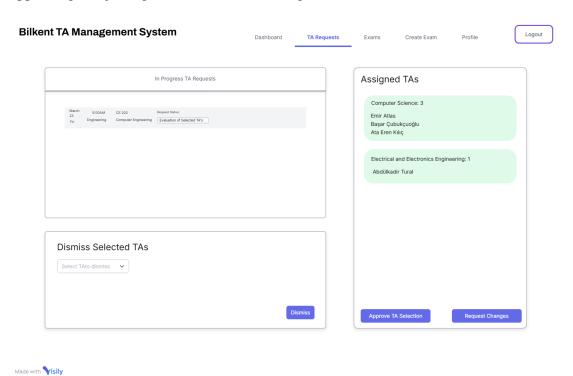
Dean Received Requests



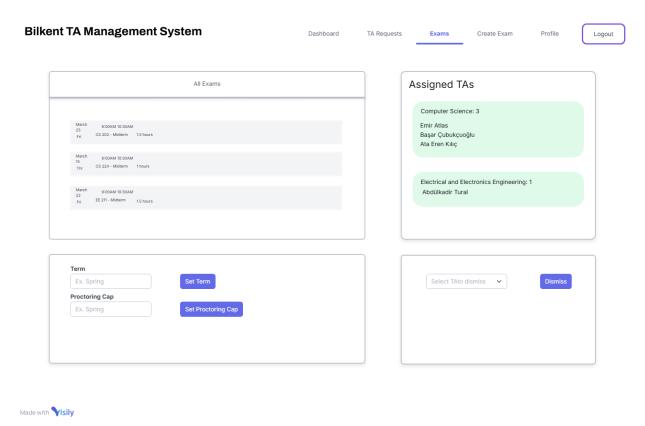
Informing Department Secratary About Other Faculty TA request



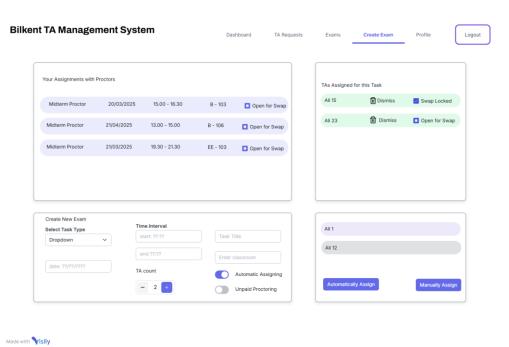
Approving / Rejecting Chosen Paid Proctoring TAs



Dean Dismiss TA from specific tasks

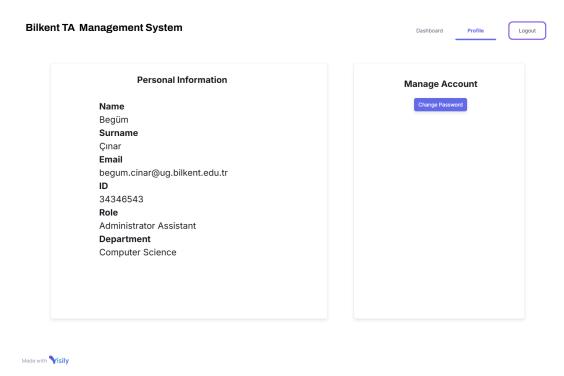


Deans Exam Page Creating Page

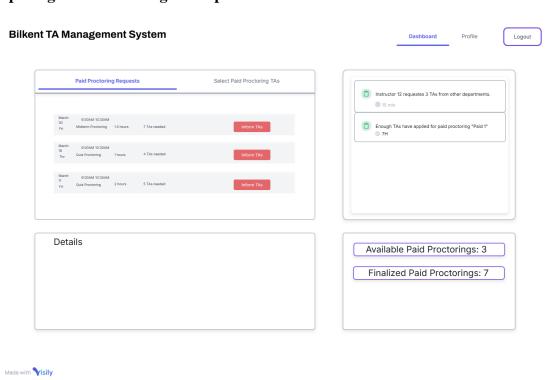


Department Secretary

Department Secratary Profile Page



Opening Paid Proctoring for Department TAs



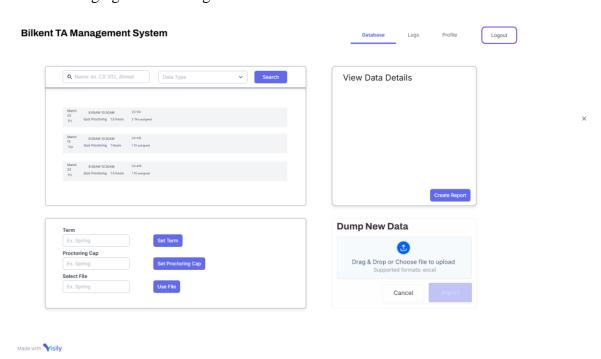
Reviewing TA applied for Paid Proctoring

Paid Proctoring Requests Select Paid Proctoring TAs Paid Proctoring Requests Select Paid Proctoring TAs Instructor 12 requestes 3 TAs from other departments. Instructor 12

Admin Page

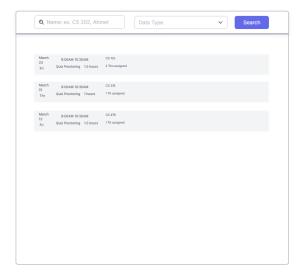
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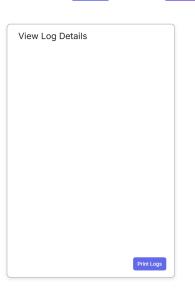
Admin Changing Database Page



Admin Viewing Logs Page

Bilkent TA Management System





Logout

