**URS**

**Functional Requirements**

**For TA Applicants**

1. User Registration: Allows TA applicants to create their personal profiles, including username, password, and relevant personal information, in a secure manner.
2. Application Submission: Provides a form or interface where applicants can fill out their details and upload their CVs for TA positions.
3. Course Selection: Shows a drop-down or a list of courses that are in need of TAs, allowing applicants to select the ones they are interested in and are qualified for.
4. Status Check: Enables applicants to log in and check the current status of their application, such as “Received,” “Under Review,” or “Decision Made.”
5. Previous Experience: Gives an optional section in the application form where applicants can detail their past TA roles, the courses they assisted in, and the time frames for those roles.
6. Confirmation Email: Automatically sends an email to applicants confirming that their application has been successfully submitted.

**For Department Staff**

1. Course Management: Offers a management console for entering new courses that require TAs, updating existing courses, or removing courses that no longer need TAs.
2. Preliminary Matching: Provides a feature to run algorithms that match TA applicants based on their qualifications and the needs of the course.
3. Data Review: Allows for a dashboard where all TA applications, CVs, and other qualifications can be viewed and sorted for easier review.
4. Update Course List: Enables staff to update the list of courses requiring TAs as changes occur (e.g., a course gets canceled or a new one is added).
5. Send Preliminary Matches: Allows staff to send a list of preliminary matches between TAs and courses to the TA Committee for further review and final decisions.

**For TA Committee Members**

1. Application Review: Provides an interface to review all the submitted TA applications, complete with their qualifications and attached CVs.
2. Review Staff Recommendations: Offers the ability to view preliminary matches made by the department staff, assisting in the final decision-making process.
3. Final Decision: Enables the committee to make the final decisions on TA assignments and update the system accordingly.
4. Data Export: Allows for exporting application and decision data into formats suitable for meetings, such as PDF or Excel.
5. Generate Reports: Provides a function to generate summary reports outlining the final TA assignments for the term, including course numbers and TA names.

**For Instructors**

1. Performance Assessment: Gives a form or interface where instructors can rate and comment on the performance of their TAs.
2. View Assignments: Allows instructors to see which TAs have been assigned to their courses before the term begins.
3. Provide Feedback: Offers a section where instructors can add additional comments or qualitative feedback about a TA’s performance.
4. Notification for Evaluation: Sends automated reminders to instructors when it’s time to evaluate their TAs.

**Non-Functional Requirements**

1. Security: Incorporates role-based access controls and encrypts sensitive information to protect against unauthorized access.
2. Scalability: Ensures the system can adapt to a growing number of users and expand data without performance degradation.
3. Data Integrity: Puts checks in place to ensure all data remains consistent and accurate throughout all operations.
4. Usability: Aims for an intuitive interface that minimizes the learning curve and maximizes user satisfaction.
5. Response Time: Engineers the system to respond to most user interactions within 2 seconds.
6. Data Backup: Implements automated backups of all crucial data at regular intervals to prevent data loss.
7. Notifications: Features automated notifications via email or in-app to keep users informed during various stages of the application and decision-making process.

Use Case Diagrams:

**Functional Use Cases**

**Use Case 1: Upload Application and CV**

* Actor: TA Applicant
* Description: The applicant logs into the system and uploads their application form and CV to apply for a TA role.

**Use Case 2: Indicate Past Experience**

* Actor: TA Applicant
* Description: The applicant adds information about any previous TA roles, mentioning the courses they’ve assisted in and the dates of service.

**Use Case 3: Add Course Requirements**

* Actor: Department Staff
* Description: A staff member enters the names or codes of courses that need TAs for the next term into the system.

**Use Case 4: Review and Preliminary Matching**

* Actor: Department Staff
* Description: A staff member looks at all the submitted TA applications and their skills. They then perform initial matching of TAs to courses.

**Use Case 5: Review Applicant List**

* Actor: TA Committee Member
* Description: A committee member goes through the list of all applicants, their uploaded CVs, and any preliminary matches recommended by the department staff.

**Use Case 6: Finalize TA Assignments**

* Actor: TA Committee Member
* Description: The committee member confirms the final list of TAs assigned to each course after reviewing the applicant list and staff suggestions.

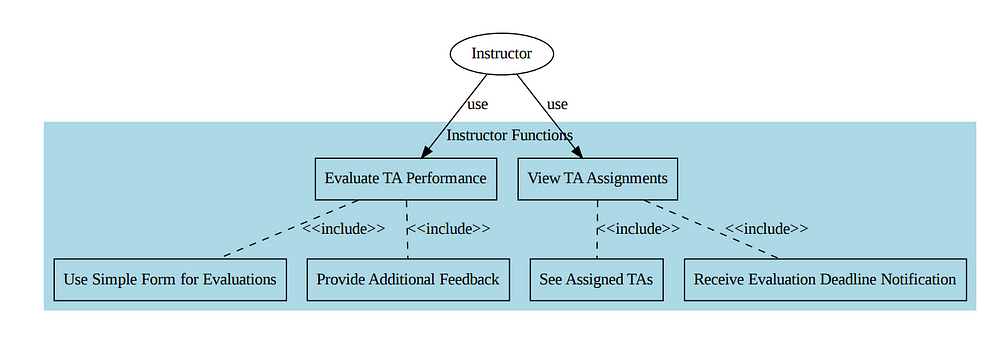
**Use Case 7: Evaluate TA Performance**

* Actor: Instructor
* Description: The instructor fills out an online form to rate and comment on how well the assigned TA performed during the term.

**Use Case 8: View TA Assignments**

* Actor: Instructor
* Description: The instructor logs into the system to see the names of the TAs assigned to their courses.

A diagram of a department

Description automatically generatedA diagram of a company

Description automatically generatedA diagram of a company

Description automatically generated