Requirements Analysis and Specification Document (RASD)

InternHub - Students&Companies (S&C) Platform

Version 0.1

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1. Introduction

1.1 Purpose

This Requirements Analysis and Specification Document (RASD) provides a comprehensive overview of the InternHub Students & Companies (S&C) platform. Its primary purpose is to serve as both a guide for developers responsible for implementing the system specifications and as a contractual reference point for clients and contractors. Additionally, it offers a clear, precise, and unambiguous explanation of the platform's features and limitations, empowering students, companies, and academic institutions to confirm that the system meets their needs and requirements.

The S&C platform's overarching goal is to transform how university students connect with companies for internships. To this end, it focuses on:

1. Establishing an efficient system that matches students with suitable internship opportunities.
2. Streamlining the entire internship lifecycle—from application through completion—to simplify both student and company workflows.
3. Utilizing smart recommendation algorithms to align student skills with company requirements, ensuring more accurate and beneficial matches.
4. Providing robust monitoring and feedback tools to enhance transparency, accountability, and continuous improvement.
5. Ensuring effective complaint management and maintaining high-quality standards throughout the internship process.

By offering a seamless and impactful experience, the S&C platform aims to serve as a trusted solution that addresses the requirements of all stakeholders—students, businesses, and universities—thereby ensuring a more efficient, productive, and rewarding internship ecosystem.

1.1.1 Goals

ID	Description
G1	Enable students to create detailed profiles, including their CVs, skills, academic achievements, and interests.
G2	Allow companies to post comprehensive internship opportunities, detailing roles, requirements, benefits, and timelines.
G3	Provide intelligent recommendations that align student skills and preferences with internship opportunities.
G4	Equip universities with tools to effectively monitor, manage, and track student internship progress and performance.
G5	Implement feedback and rating systems to promote accountability and continuous improvement for both students and companies.
G6	Facilitate seamless communication between students, companies, and universities for better collaboration and coordination.
G7	Integrate a secure document management system for handling internship-related paperwork, such as contracts and certificates.
G8	Offer analytics and reporting tools to provide insights into internship trends, success rates, and areas for improvement.

G9	Support multilingual functionality to ensure accessibility for a diverse user base across regions.
G10	Implement a grievance redressal mechanism to resolve disputes and ensure fair treatment for all users.
G11	Provide training modules or resources to prepare students for internships, such as interview tips and skill-building exercises.

1.2 Scope

World Phenomena:

The project addresses core operational areas that shape the interactions and processes among students, companies, and universities. These include:

1. **Student Internship Process:** Students search for and apply to internships, creating personal profiles and uploading their CVs.
    - *ID: WP1* Students create profiles and upload their CVs.
    - *ID: WP4* Students apply for internships.
2. **Company Internship Management:** Companies post internship opportunities, define requirements, and review applications to select suitable candidates.
    - *ID: WP2* Companies post internship opportunities.
    - *ID: WP5* Companies review applications and select candidates.
3. **University Oversight:** Universities maintain a supervisory role, monitoring and managing internship activities to ensure quality and compliance.
    - *ID: WP3* Universities monitor internship progress.
4. **Interview Coordination and Selection:** The platform facilitates the scheduling and management of interviews and other selection procedures to ensure a smooth hiring process.
5. **Feedback and Quality Assurance:** Feedback is collected from students, companies, and universities to ensure continuous improvement, enhanced user experience, and adherence to quality standards.
    - *ID: WP6* Feedback is collected from students and companies.
6. **Complaint Handling:** A robust complaint-handling system ensures issues are addressed efficiently, maintaining trust and transparency in all interactions.
7. **Fair and Transparent Interactions:** The system is designed to foster an environment of fairness, transparency, and accountability among students, companies, and universities.

Shared Phenomena:

The platform provides a suite of shared functionalities, ensuring seamless interaction and data exchange among all stakeholders (Students, Companies, and Universities):

1. **User Account Management and Profiles:**
    - *ID: SP1* Students create accounts on the platform (Controller: Student, Observer: Platform).
    - *ID: SP2* Companies create accounts on the platform (Controller: Company, Observer: Platform).
    - *ID: SP3* Universities create accounts on the platform (Controller: University, Observer: Platform).
2. Students maintain detailed profiles, including CVs, skills, and achievements, while companies and universities manage their respective institutional profiles.
3. **Internship Postings and Applications:**
   Students can apply directly to posted internships, and companies can review and manage these applications.
    - *ID: SP4* Students apply for internships (Controller: Student, Observer: Platform).
    - *ID: SP5* Companies review and manage applications (Controller: Company, Observer: Platform).
    - *ID: SP6* Universities track student applications (Controller: University, Observer: Platform).
4. **Feedback and Rating System:**
   A comprehensive feedback mechanism enables stakeholders to exchange feedback, ratings, and reviews to ensure accountability and continuous improvement.
    - *ID: SP7* Feedback is exchanged between stakeholders (Controller: All, Observer: Platform).
5. **Interview Scheduling and Notifications:**
   Interviews are coordinated efficiently, with automated reminders and updates for both students and companies.
6. **Communication and Support Tools:**
   The platform offers seamless communication channels for queries, updates, and issue resolution among students, companies, and universities.
7. **Document Management:**
   Secure storage and sharing capabilities for documents, such as internship agreements, certificates, and other relevant files, ensure easy access and proper record-keeping.
8. **Analytics and Insights:**
   Real-time analytics and reporting tools help all parties make informed decisions, monitor internship progress, and assess performance metrics.
9. **Multilingual Support:**
   The platform supports multiple languages, accommodating a diverse global user base.
10. **Training and Preparation Resources:**
    Students have access to resources like training materials and interview preparation tools, aiding them in securing and succeeding in internships.

1.3 Definitions, Acronyms, Abbreviations

Term/Acronym	**Definition**
S&C	Students&Companies Platform
RASD	Requirements Analysis and Specification Document
CV	Curriculum Vitae
UI	User Interface
API	Application Programming Interface
DBMS	Database Management System
SLA	Service Level Agreement
GDPR	General Data Protection Regulation

1.4 Revision History

Version	**Date**	**Description**	**Authors**
0.1	December 2024	Initial Release	Shreesh Kumar Jha, Samarth Bhatia, Satvik Sharma

1.5 Reference Documents

1. IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications
2. Assignment RDD AY 2024-2025 Software Engineering 2
3. GDPR Documentation and Guidelines
4. ISO/IEC 25010:2011 System and Software Quality Requirements

1.6 Document Structure

As shown below, the document is organized into six sections, each with a distinct focus:

1. **Introduction:**
   The project's goals, purpose, and a succinct analysis of common and worldwide occurrences are presented in the introduction, containing acronyms and definitions to help you grasp the problem domain.
2. **Overall Description:**
   Provides a thorough rundown of the issue, potential domains, and features of the product. explains limitations, dependencies, and assumptions as well.
3. **Specific needs:**
   Provides a detailed description of both functional and non-functional needs, including those pertaining to external interfaces.
4. **Formal Evaluation Using Alloy:**
   Provides assertions and checks to validate the model outlined in previous parts.
5. **Effort Spent:**
   Describes how each team member contributed to the writing of this paper.
6. **References:**
   Provides a list of all the supplementary materials and references that were utilized to produce the document.

2. Overall Description

2.1 Product Perspective

2.1.1 | Scenarios

Scenario 1: A student registers
A university student named Amelia Young chooses to work for S&C while searching for an internship. After accessing the platform's home page, she selects the "Sign-Up" option and inputs her email address, name, and a strong password. She gets a confirmation email after completing the form. Amelia activates her account by clicking on the confirmation link. After finishing, she logs on to look for internship possibilities.

Scenario 2: A Company posts an internship
Interns are needed for the data analytics team at InnovateCorp, a mid-sized software startup. After logging in to S&C, an HR representative from the organization fills out the "Post Internship" part, which includes the job title, description, length, and needed qualifications. They also establish a deadline for applications. After submission, S&C gives InnovateCorp a confirmation email and contacts the appropriate students based on their profiles.

Scenario 3: A University administrator monitors internships
Greenfield University academic coordinator Dr. Olivia Cruz uses S&C to monitor the development of her students' internships. She goes to the "Internship Monitoring" section, where she may see comprehensive reports, examine student and company comments, and respond to complaints made by either side.

Scenario 4: A Student applies for an internship
Liam Chen, a computer science major, looks for software development internships on S&C. He discovers a position at InnovateCorp that suits him after using filters to refine the results. After reading the job description, Liam selects "Apply Now" and sends in his resume. On his dashboard, the application status is updated.

Scenario 5:A Company reviews applications
Notifications of new applications are sent to InnovateCorp's HR department. They access Liam's profile and resume by logging in to the "Application Management" area. Following screening, Liam is placed on their shortlist, and his dashboard is automatically updated with the interview time.

System Context

The Students & Companies (S&C) platform is a dynamic web-based solution designed to streamline the internship process by bridging the gap between students, companies, and universities. The platform caters to three primary user groups, each with distinct roles and requirements:

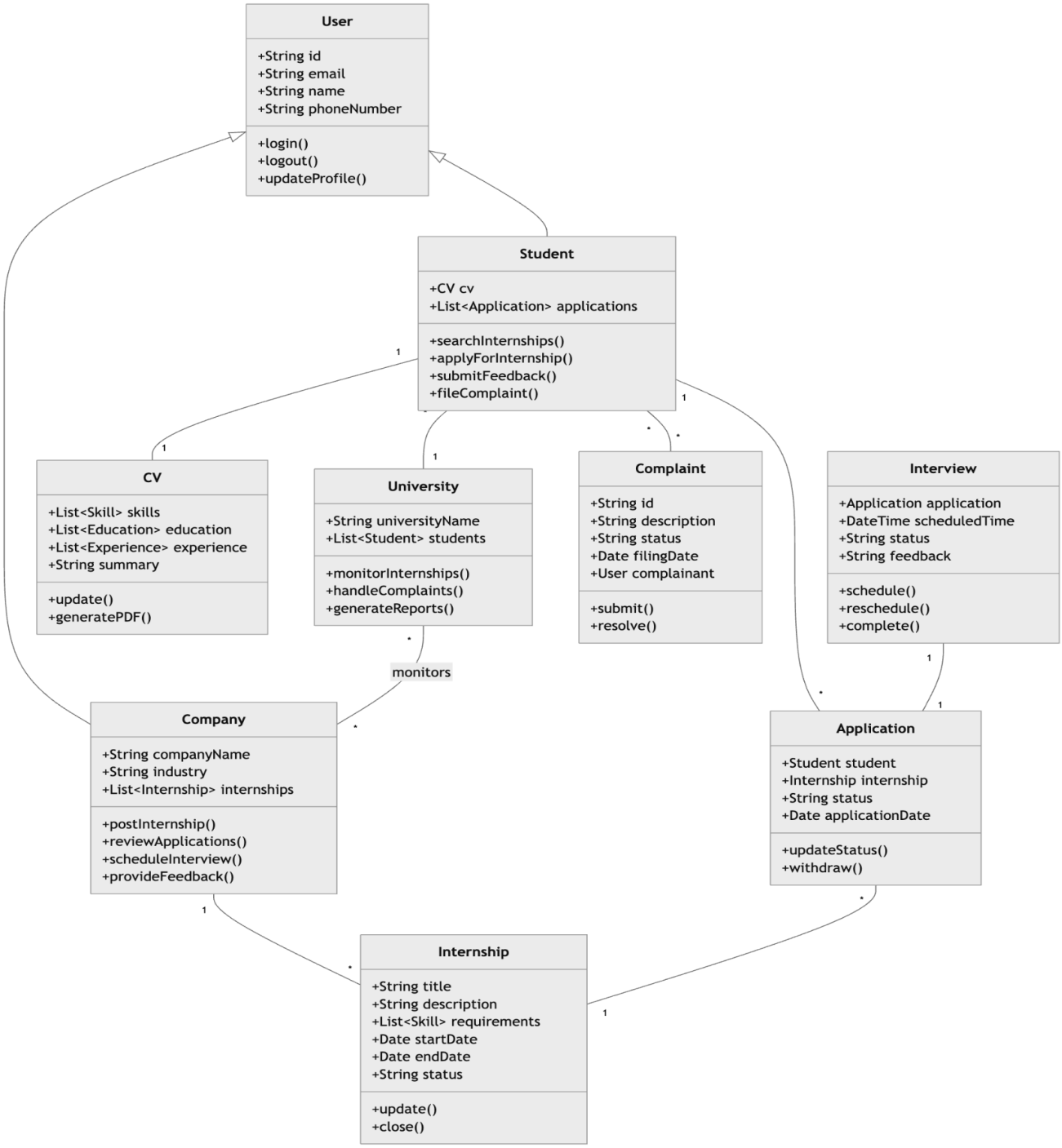
1. University Students:
Students utilize the platform to search for internship opportunities, create detailed profiles with CVs and skills, and track their application progress.

2. Companies:
Organizations post internship positions, outline role requirements, and select suitable candidates based on student profiles and recommendations.

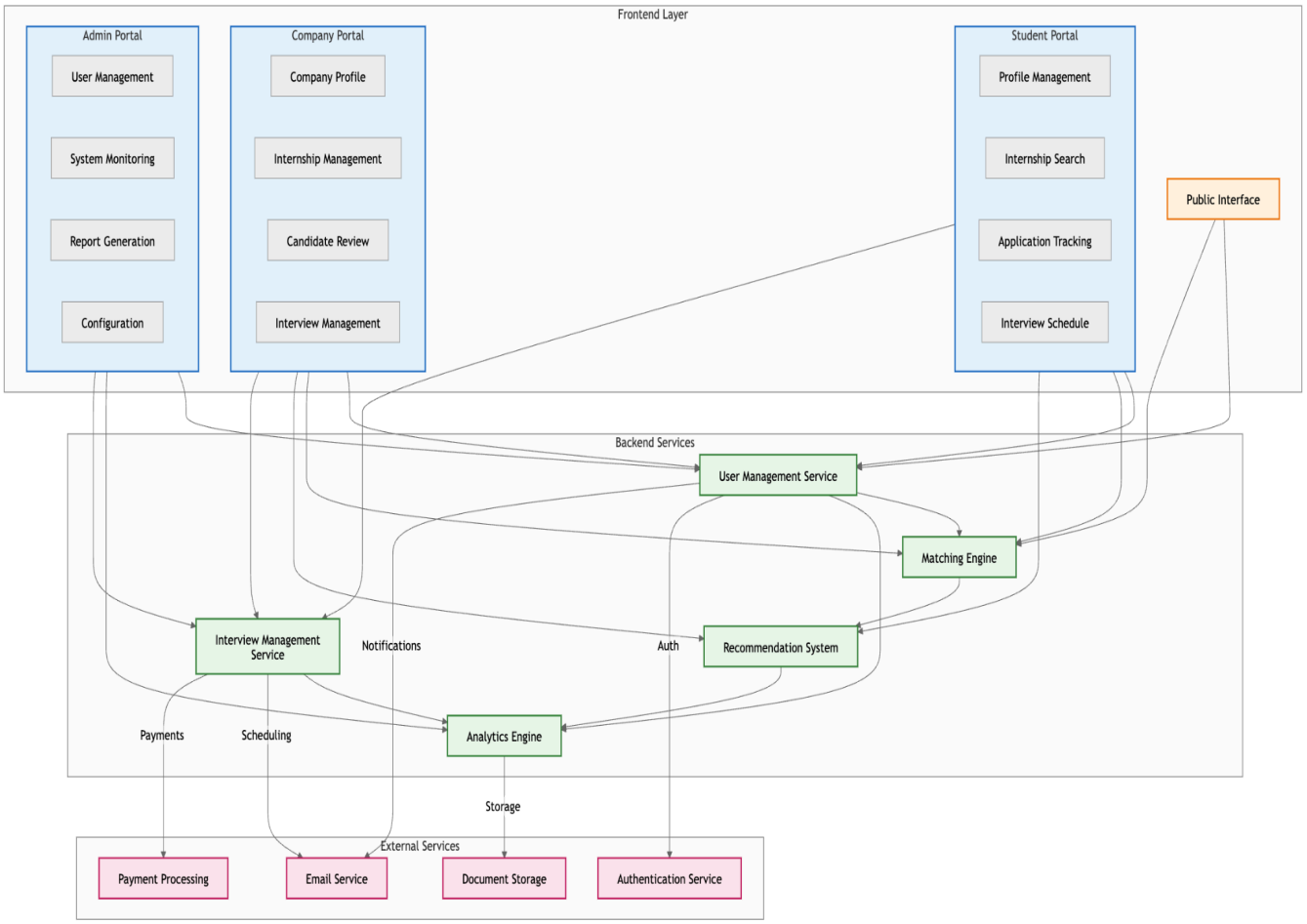
3. University Administrators:
Universities leverage the platform to oversee the entire internship process, monitor student performance, and ensure alignment with academic standards.

4. **Central Platform:**
The S&C platform serves as a centralized hub, fostering efficient communication, reducing administrative overhead, and ensuring a seamless experience for all stakeholders involved.

2.1.2 | Class Diagram



2.1.3 System Architecture



The platform consists of:

The following elements make up the modular architecture of the S&C platform:

1) Front-end Layer:
    a. Student Portal: A place where students may keep track of applications, maintain profiles, and look for internships.
    b. Company Portal: Resources for employers to advertise openings, evaluate applicants, and offer comments.
    c. University Administrator Portal: An interface that allows colleges to handle reports and keep an eye on internships.
    d. The public interface lets users explore internships and discover more about the platform.

2) Services for the backend:
    a) Suggestion for a User Management Service
    b) Matching Engine
    c) Recommendation System
    d) Interview Management Service

e) External Integrations for the Service Analytics Engine:

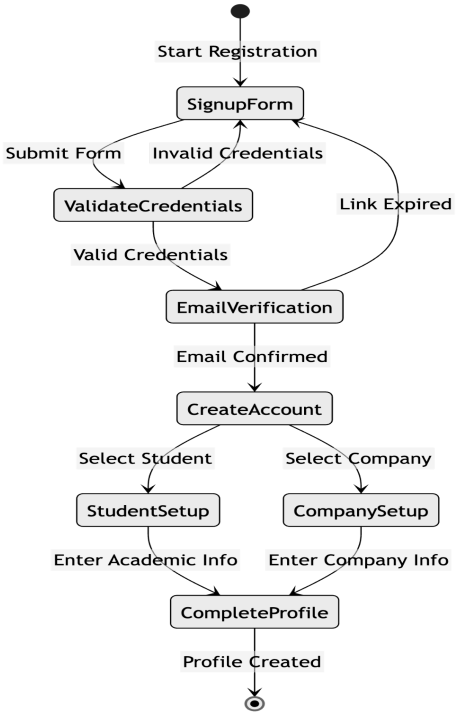
3) Email Support
    a) Authentication Service for Document Storage Systems
    b) Processing payments for internships that are compensated
    c) Authentication Service
    d) Payment Processing (for paid internships)

2.1.4 State Diagrams

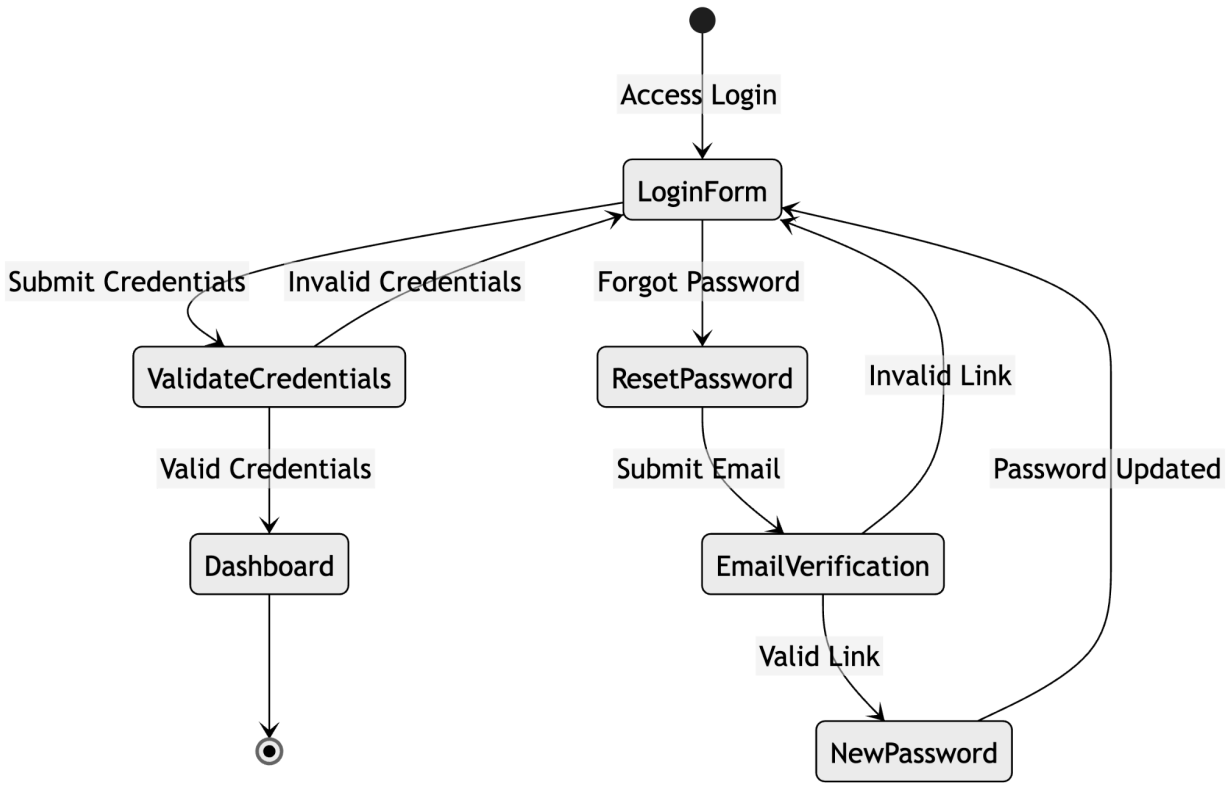
The State Diagrams of the S&C system, which depict every action a user could take, are shown in this section.

SignUp: When a user wants to register on S&C, they must fill out a registration form with their email address, password, name, and last name. S&C will send the user a verification email if the credentials they have provided are accepted (that is, if the password satisfies security requirements and the email address is not already in use). The new account is successfully created after the user confirms their registration using the email link that was provided. S&C displays an error notice to the user and reroutes them to the signup form page if the credentials are incorrect.

Additionally, S&C will ask for more company-specific details including the company name, industry, and size if the user chooses the "Register as a Company" option during the registration process. To construct a comprehensive company profile, these details are necessary.

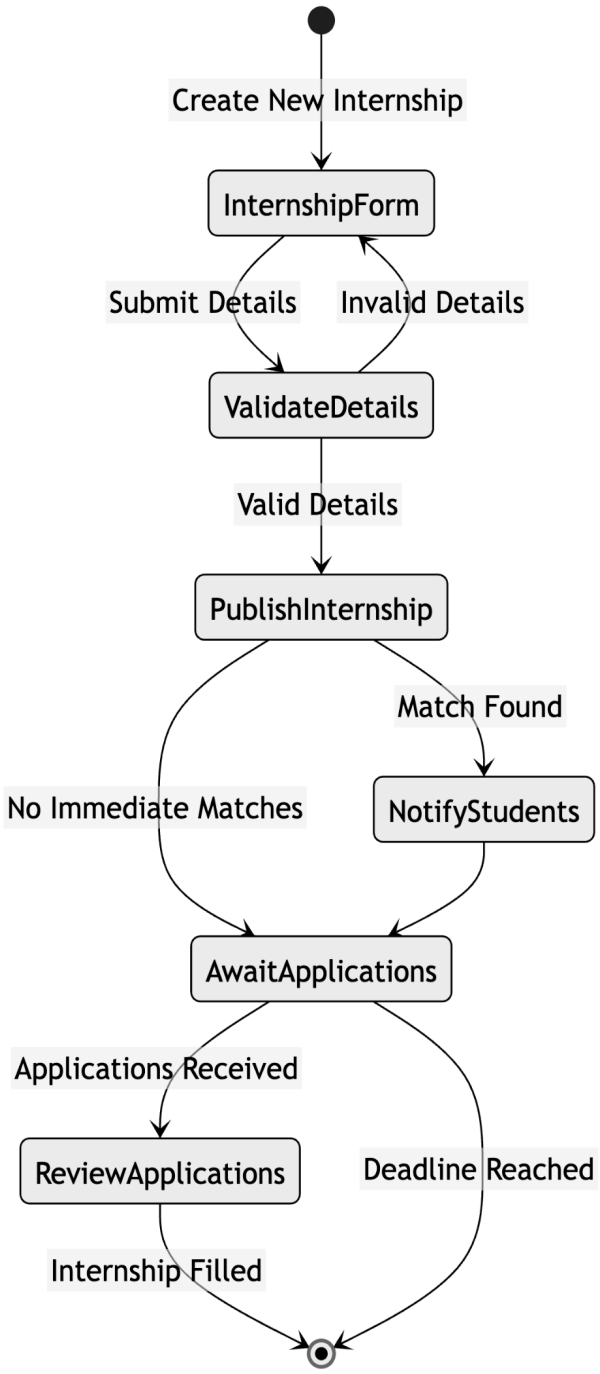


Login: A registered user must fill out a login form using their email address and password in order to access their S&C account. S&C presents the User's dashboard, which highlights pertinent internships and applications according to their function, if the credentials supplied are correct and correspond to those of a registered User in the S&C database. S&C returns the user to the login form page after displaying an error notice if the credentials entered are incorrect.

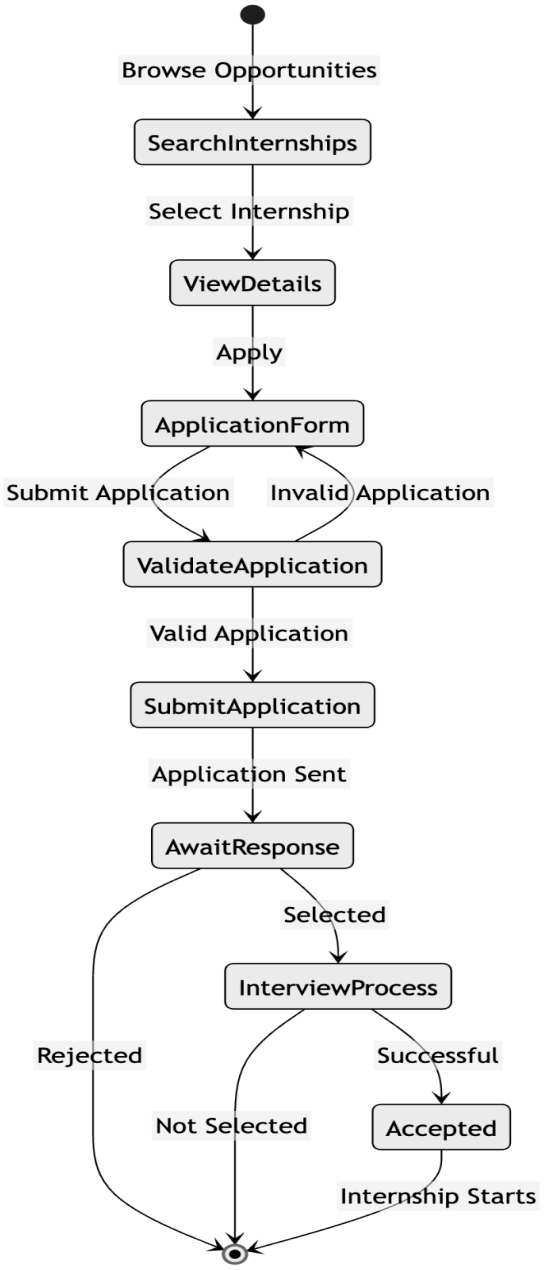


Post Internship: Companies must include a number of parameters in the create internship form when they plan to post a new internship on S&C. The job title, description, requirements, length of service, and any other information, such pay or perks, are examples of these factors. S&C shows the Company an error message and reroutes them back to the creation form if the system determines that any of these parameters are inappropriate.

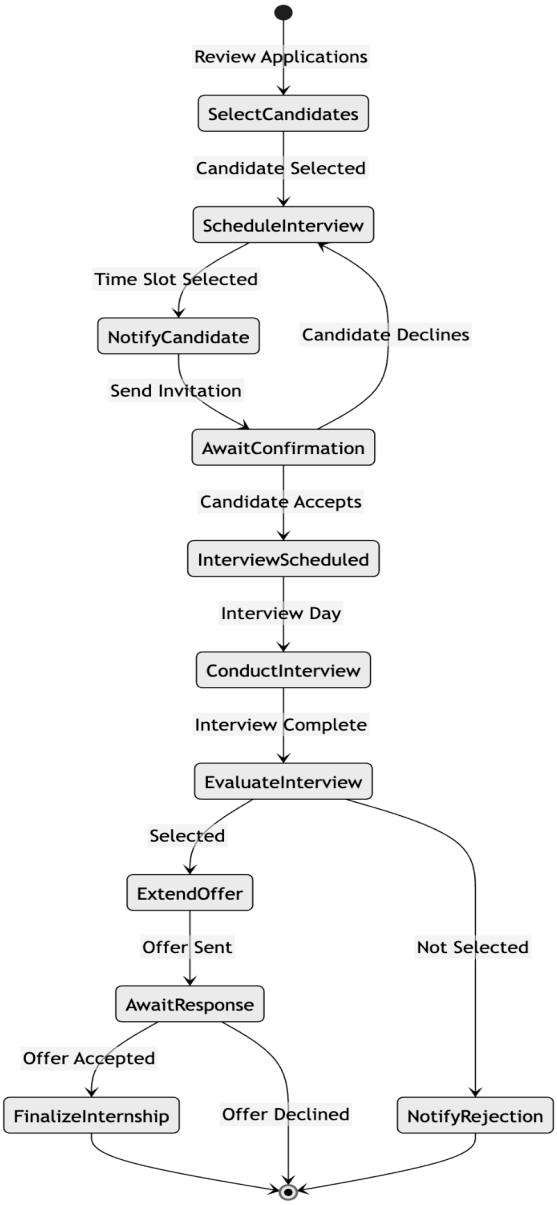
On the other hand, S&C creates the internship posting if every parameter satisfies the system's requirements. Notifications are subsequently delivered to matching students based on their profiles and preferences after the newly produced posting is published to the Company's dashboard.


Create New Internship
InternshipForm
Submit Details
Invalid Details
ValidateDetails
Valid Details
PublishInternship
Match Found
No Immediate Matches
NotifyStudents
AwaitApplications
Applications Received
ReviewApplications
Deadline Reached
Internship Filled

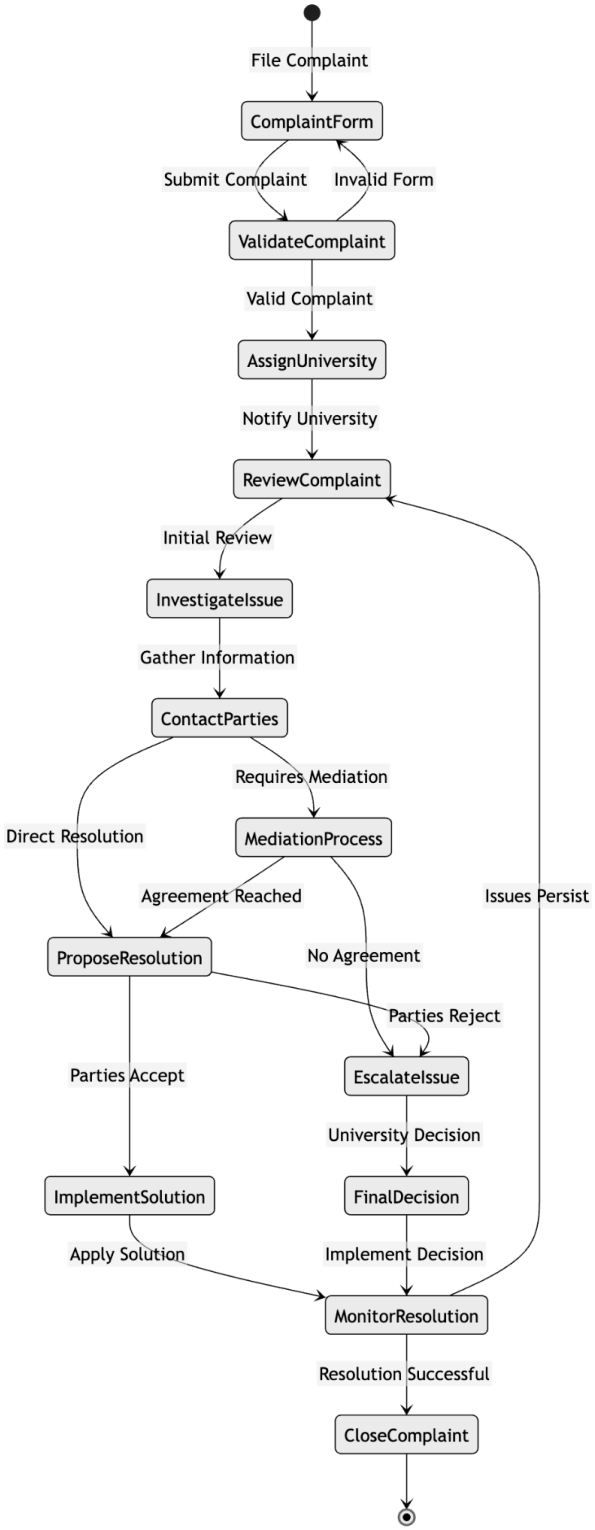
Apply for Internship: Students can use the platform to apply for internships when they locate one that interests them. The application form, which could contain extra questions unique to the role, must be filled out by the student. S&C confirms that the student satisfies the prerequisites and that the application is complete. The application is sent to the business if it is accepted, and the student can monitor its progress via their dashboard. S&C lets the student finish the application after displaying an error message if any necessary information is lacking.



Interview Management: A business can use S&C to start the interview process after reviewing applications and choosing applicants for interviews. The candidate is informed of the time slots that are available once the organization makes a selection. Other times can be suggested or accepted by the student. Notifications and calendar invitations are sent to both parties after confirmation. Following the interview, the business can document the results and move on with its choice.

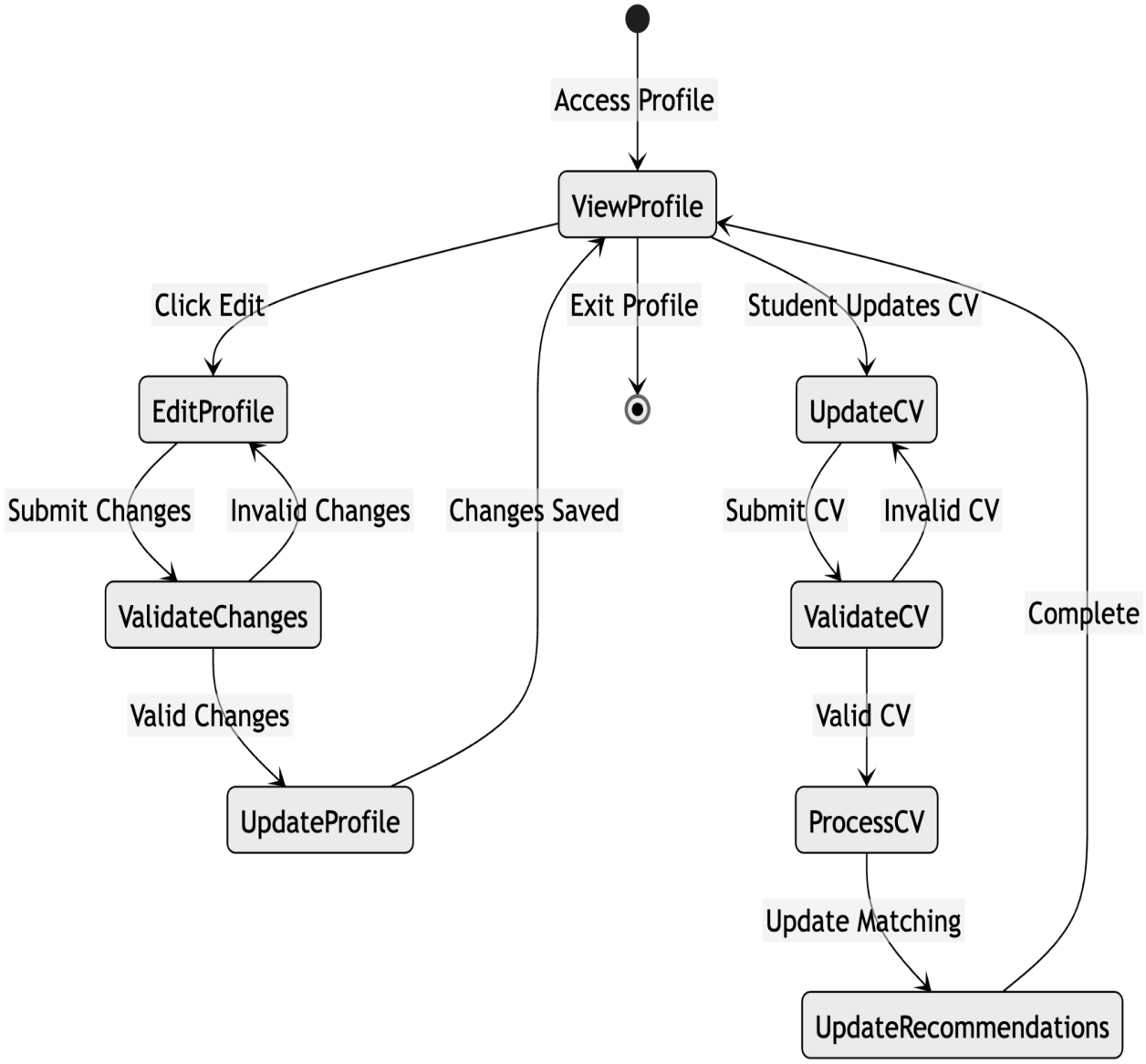


Complaint Handling: Through S&C, any party that experiences problems during the internship process can submit a complaint. A description of the problem and any pertinent documentation must be included in the complaint form. The relevant university official receives the complaint once it is filed. The university can look into the matter, get in touch with those involved, and try to find a solution. Every conversation and choice is recorded in the system.

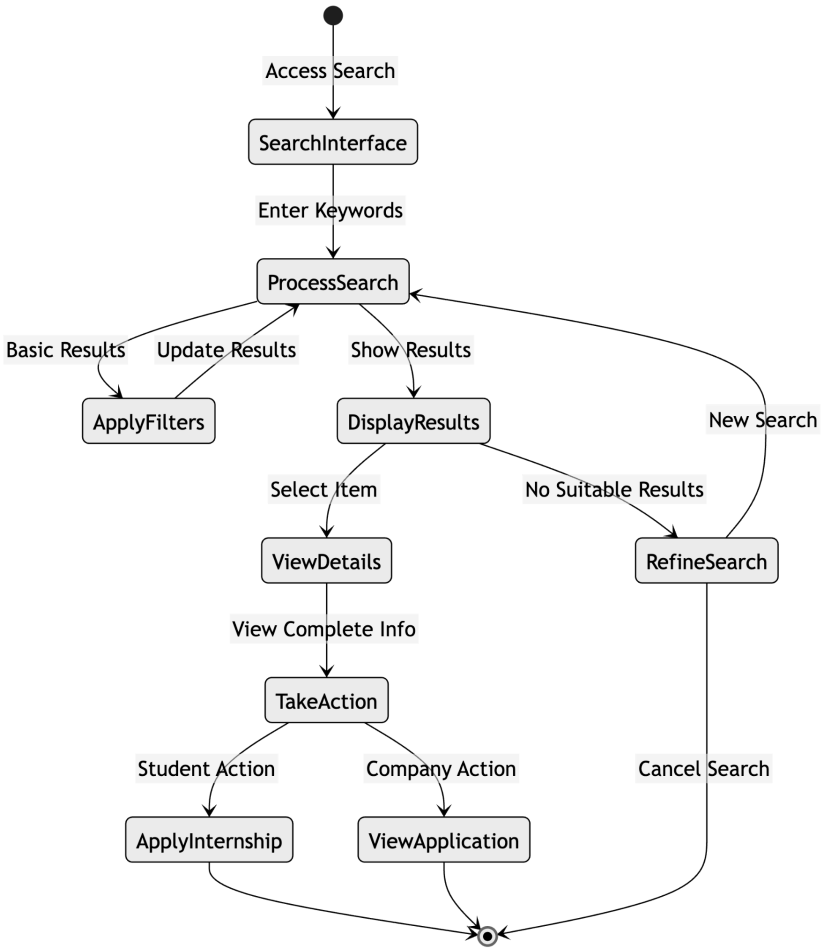


Profile Management: Anytime they choose, users can view and edit their profiles. For students, this entails revising their resume, preferences, and talents. For businesses, this entails revising internship requirements and company information. S&C verifies all modifications before they are

saved. Additionally, in response to changes in profiles, the algorithm immediately updates matching recommendations.



Search and Filter: The platform's search feature allows users to look for pertinent information. Students can use industry, geography, keywords, and other parameters to find internships. Employers can look up candidate profiles by experience, education, and skill set. Additional filters can be used to further refine search results, and users can remember their search choices for later use.



2.2 Product Functions

Core Functions

For Students:

1. **Manage Profiles and CVs:** Students have the ability to submit their resumes for prospective employers to see as well as create and edit their profiles.
2. **Search and Filter Internships:** Students can utilize search and filtering options to identify internships that fit their interests, location, and duration.
3. **Monitor Applications:** Students can keep tabs on the progress of their internship applications and get alerts when there are any changes or rulings.
4. **Schedule Interviews:** Depending on the company's availability, students can choose the times they want to interview for internships.
5. **Submit Feedback:** Students can use the platform to provide feedback and comments regarding their internship experience after it has ended.

6. **File Complaints**: Using the portal, students can directly report problems or complaints pertaining to internships.

Management of Company Profiles:

1. **Manage Company Profiles:** Companies have the ability to build, edit, and maintain profiles that contain contact information and organizational details.
2. **Post Internships:** Businesses are able to publish internship openings along with comprehensive requirements and descriptions.
3. **Screen Candidates:** Employers have the ability to examine applications and sort applicants according to their backgrounds, profiles, and other requirements.
4. **Conduct Interviews:** Employers can use the site to immediately schedule and interview shortlisted individuals.
5. **Gather Feedback:** Following an interview or after an internship, employers might offer input on applicants.
6. **Monitor Performance:** During an intern's internship, businesses can keep tabs on their performance.

University Performance:

1. **Observe Student Activity:** Academic institutions have the ability to keep an eye on students' applications, profiles, and internship progress.
2. **Oversee Internships:** Academic institutions can examine information regarding current internships and how well they fit with their objectives.
3. **Handle Complaints:** Universities have the authority to handle and settle complaints about internships made by businesses or students.
4. **Generate Reports:** Academic institutions have the ability to produce reports on internship data, student accomplishments, and employer opinions.
5. **Ensure Quality Assurance:** Academic institutions are able to assess internships' quality and make sure they adhere to institutional requirements.

2.3 User Characteristics

Students

1. Students at universities looking for internships.
2. Demographics: University students from diverse academic backgrounds and skill levels.
3. Motivations: Actively seeking internships to enhance their academic learning, gain practical experience, and develop their careers.
4. Technical Proficiency: Basic computer literacy, with varying levels of technical expertise depending on their academic discipline.
5. Access Requirements: Use web browsers and mobile devices for seamless access to the platform.

6. Engagement Needs: A user-friendly interface with clear guidance for application processes, personalized internship recommendations, and progress tracking is required.

Companies

1. Demographics: Organizations ranging from startups to multinational corporations across various industries.
2. Key Users:
    a. HR Personnel: Responsible for posting internships, managing candidate applications, and coordinating interviews.
    b. Department Managers: Assess technical and domain-specific skills of applicants.
    c. Technical and Non-Technical Staff: Engage with interns for mentorship and project collaboration.
3. User Roles: Flexible role-based access for different functionalities, such as job posting, candidate review, and administrative controls.
4. Engagement Needs: Require tools for streamlining recruitment processes, accessing applicant analytics, and maintaining compliance with university policies.

University Administrators

1. Key Roles:
    a. Academic Coordinators: Oversee the alignment of internships with educational goals and curriculum requirements.
    b. Internship Program Managers: Monitor internship program effectiveness, gather feedback, and ensure compliance with regulations.
    c. Student Advisors: Guide students on selecting suitable internships and navigating application processes.
    d. System Administrators: Maintain the platform, manage user accounts, and ensure data security.

2. Engagement Needs: Require detailed dashboards for tracking student participation, company partnerships, and program outcomes. Need tools for generating reports and managing communications between stakeholders

2.4 Assumptions, Dependencies and Constraints

2.4.1 | Domain Assumptions

ID	Description
DA1	Users have reliable internet access.
DA2	Students maintain updated CVs.
DA3	Companies provide accurate information about internships.

DA4	Universities actively monitor students' progress on S&C.
DA5	All users comply with the platform's terms and policies.

2.4.2 | Dependencies

ID	Description
D1	Reliable web hosting services.
D2	Functional email delivery system.
D3	Secure database system.
D4	File storage system for documents.
D5	Authentication services to manage user logins.

2.4.3 | Constraints

ID	Description
C1	Must comply with GDPR and data protection regulations.
C2	Adhere to university-specific internship regulations.
C3	Ensure system performance under high traffic.
C4	Provide compatibility across major web browsers.
C5	Implement robust security standards for data handling.

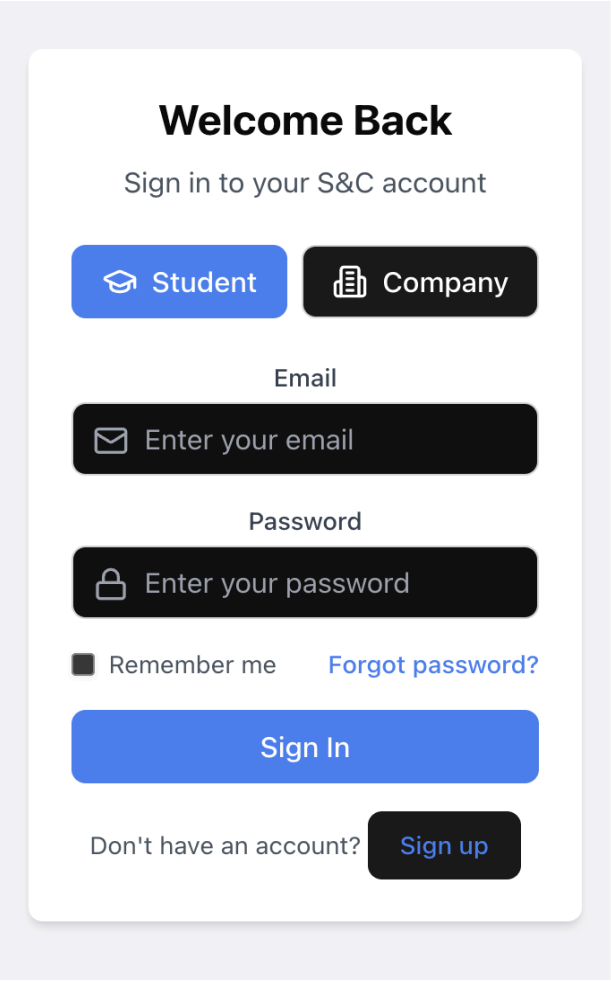
3. Specific Requirements

3.1 External Interface Requirements

User Interfaces

Authentication Interface:

1. User login and registration.
2. Password reset functionality.
3. Multi-factor authentication (optional).



Create Account

Join S&C to start your journey

Student | Company

First Name

Enter first name

Last Name

Enter last name

University

Enter your university

Email

Enter your email

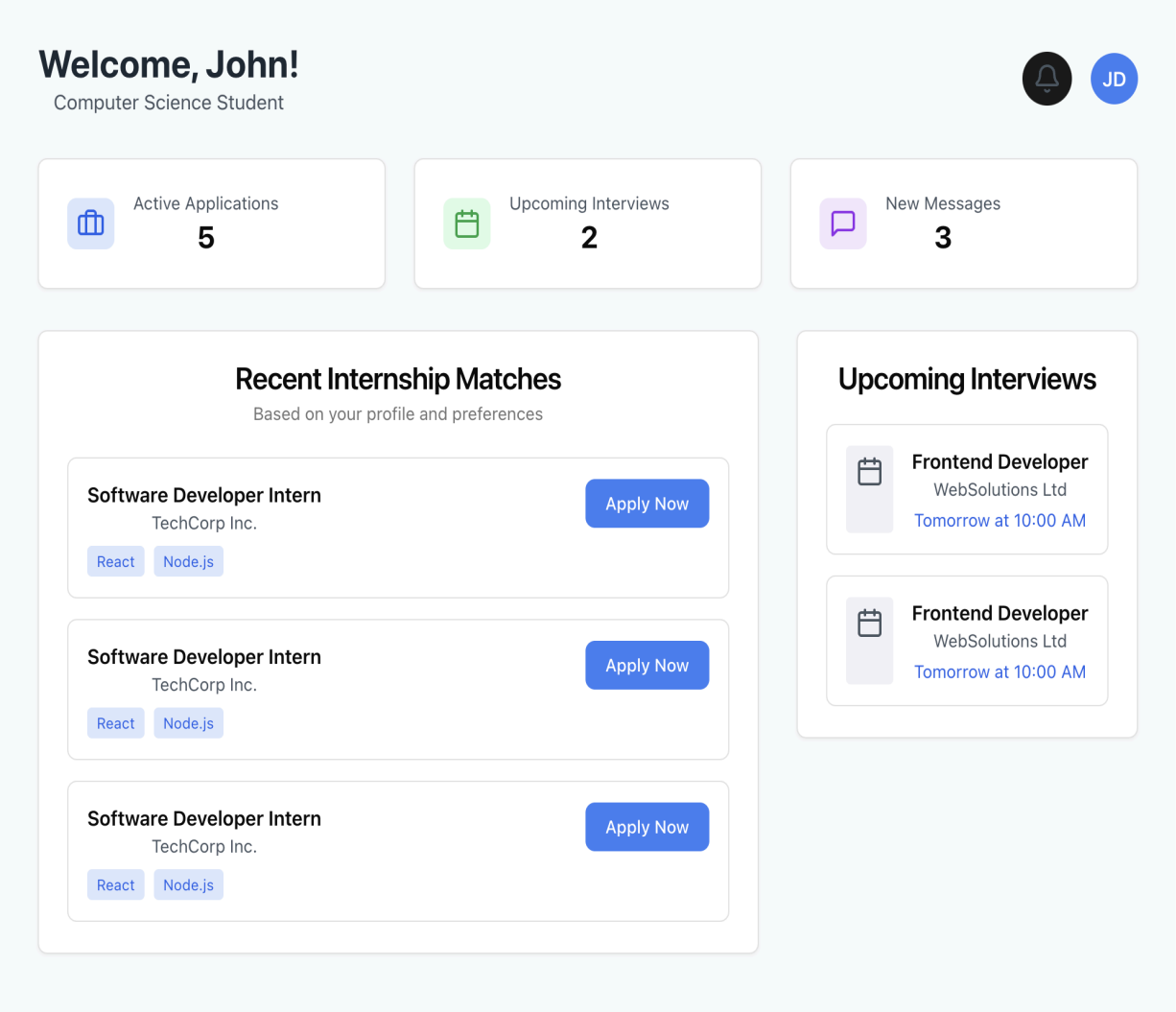
Password

Create password

Create Account

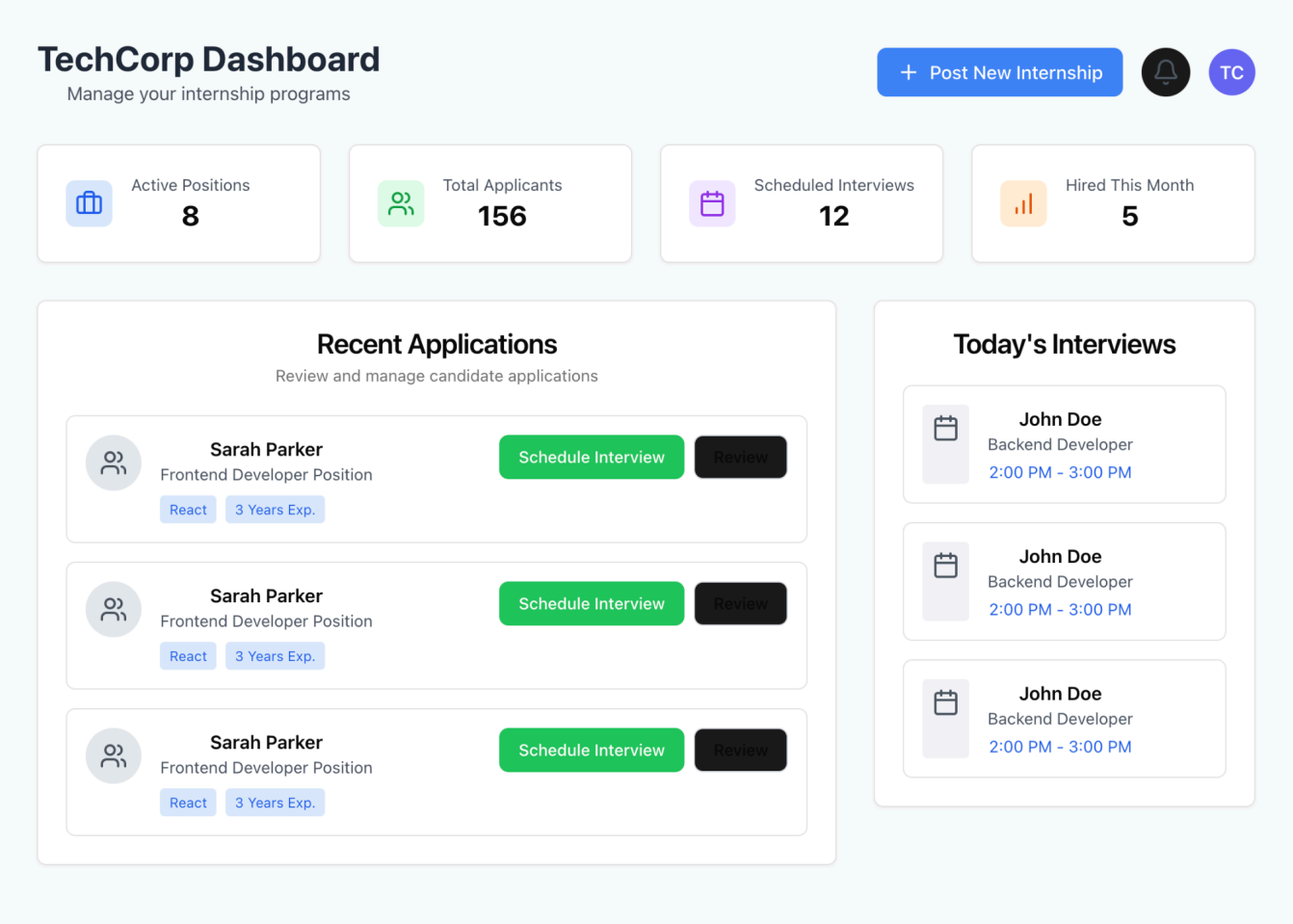
Already have an account? Sign in

Student Interface



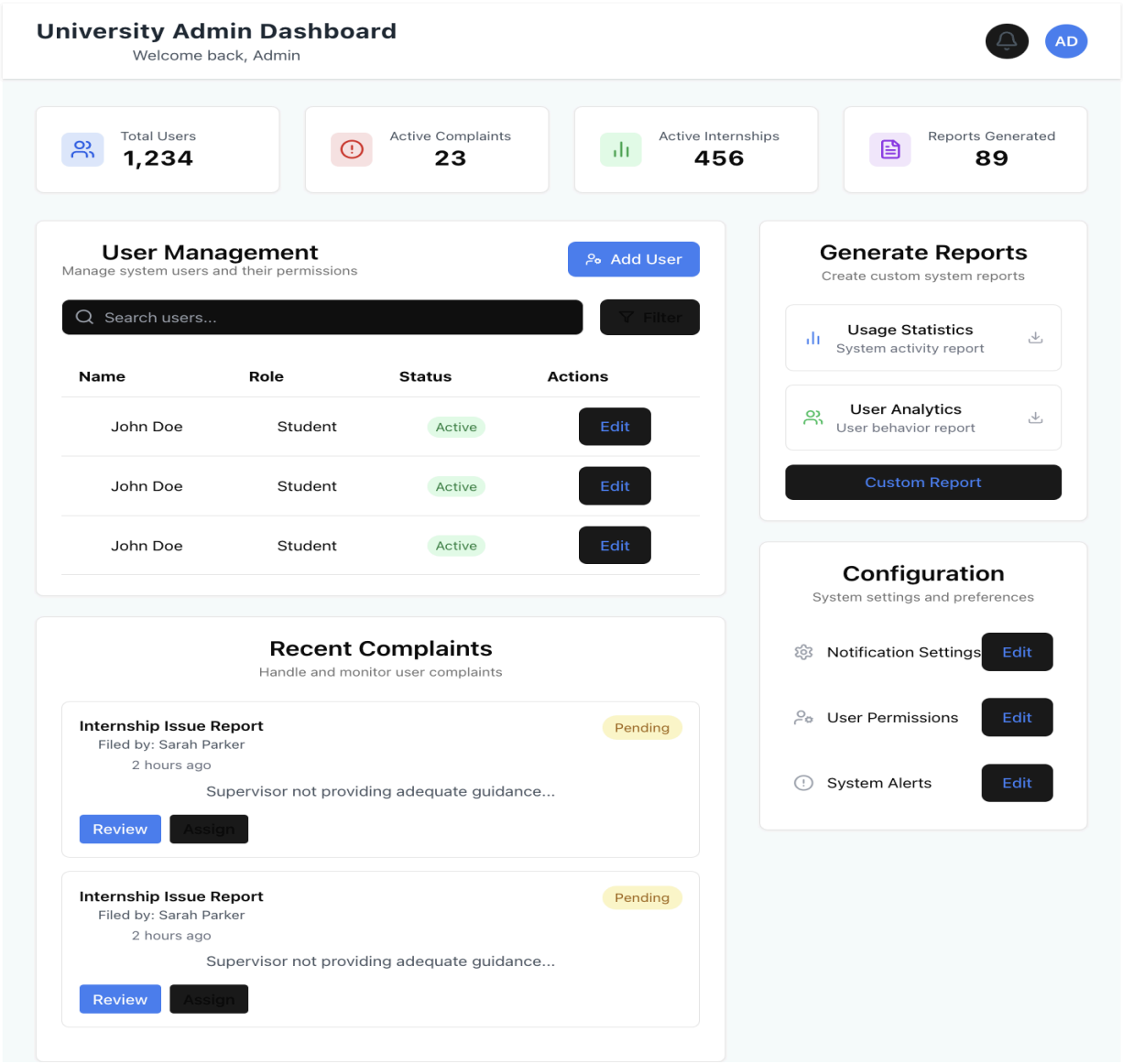
1. Dashboard Overview: Shows notifications, recommended internships, and active applications.
2. Profile management: Add or update qualifications and edit personal information.
3. CV Builder: Use built-in templates to create and manage resumes.
4. Internship Search: Look for and select internships according to talents, domain, and location.
5. Application Tracker: Check the progress of applications that have been submitted.
6. Organize interview dates with the Interview Calendar.
7. Messaging System: Interact with administrators and businesses.

Company Interface



1. Dashboard Overview: Displays applications, postings, and other data.
2. Management of Company Profiles: Modify logos and company information.
3. Management of Internship Postings: Produce and oversee internship advertisements.
4. Managing Candidates: Examine applications and create a shortlist of applicants.
5. Use an interview scheduler to plan and monitor interviews.
6. Analytics Dashboard: Information on posting engagement and candidate performance.

Administrator Interface



1. System Overview: Keep an eye on the status and activities of the platform.
2. User management: oversee users, including administrators, businesses, and students.
3. Handling Complaints: Examine and address complaints that have been submitted.
4. Report Creation: Produce reports on internship progress and platform usage.
5. Configuration Settings: Modify settings for the entire system.

Hardware Interfaces

1. Compatible with both desktop and mobile web browsers today.
2. 1280x720 is the minimum screen resolution.
3. Supports mobile devices with touch interfaces.
4. Features for uploading and downloading resumes, job descriptions, and feedback files.

Software Interfaces

1. User information, internships, and system logs are stored in the database management system.
2. Email server: Provides emails for confirmation and notifications.
3. File Storage System: Manages uploaded documents, including resumes.
4. Role-based access and user login are managed by the authentication system.
5. Analytics Engine: Produces use reports and offers insights.

Communication Interfaces

1. Secure communication is ensured using the HTTPS protocol.
2. RESTful API: Enables front-end and back-end communication.
3. Real-time notifications are supported by WebSocket connections.
4. Email SMTP: Manages email correspondence for notifications and alerts.

3.2 Functional Requirements

User Management (F1)

1. F1.1: User Registration: Permit administrators, businesses, and students to register.
2. F1.2: Authentication: Offer a safe login process with the option of two-factor verification.
3. F1.3: Profile Management: Give users the ability to make changes to their profiles.
4. F1.4: Role Management: Assign particular rights according to the roles of users.

CV Management (F2)

1. F2.1: CV Creation: Let students use the pre-made templates to generate their resumes.
2. F2.2: CV Updates: Permit current resumes to be updated.
3. F2.3: CV Visibility: Manage the visibility of resumes for businesses.
4. F2.4: Skills Management: Give pupils the freedom to develop and oversee their skills.

Internship Management (F3)

1. F3.1: Posting Creation: Employers have the ability to post internship openings.
2. F3.2: Application Processing: Viewing and managing applications is possible for businesses.
3. F3.3: Status Updates: Inform students of the progress of their applications.
4. F3.4: Search and Filtering: Internships are searchable and filterable by students.

Interview Management (F4)

1. F4.1: Schedule Management: Interview schedules can be managed by both students and businesses.
2. F4.2: Interview Monitoring: Monitor the status and advancement of planned interviews.
3. F4.3: Feedback Gathering: Get input from businesses and students alike.

4. F4.4: Status Updates: Inform users of the results of their interviews.

Recommendation System (F5)

1. F5.1: Skills Matching: Match students with internships based on skills.
2. F5.2: Profile Matching: Suggest qualified applicants to employers.
3. F5.3: Preference Learning: Improve recommendations by learning user preferences.
4. F5.4: Generating Suggestions: Offer tailored recommendations.

Complaint Handling (F6)

1. F6.1: Complaint Filing: Allow users to file complaints.
2. F6.2: Processing: Review and process filed complaints.
3. F6.3: Resolution: Resolve complaints and notify users.
4. F6.4: Appeals: Allow users to appeal unresolved complaints.

3.3 Performance Requirements

Response Time

- **Page Load**: < 5 seconds for typical pages during testing.
- **Search Results**: < 2 seconds for small-scale datasets.
- **File Upload**: < 10 seconds for files up to 10MB.
- **Real-time Updates**: < 1 second for key interactive features.

System Capacity

- **Concurrent Users**: Support for up to 50 simultaneous users.
- **Database Transactions**: Designed to handle 10 transactions per second under typical usage.
- **File Storage**: Capacity for up to 10GB, suitable for project scope and testing.
- **Backup Frequency**: Weekly or manual backups for data protection during development.

Availability

- **Uptime**: Target of 95%, considering potential downtime for development and testing.
- **Scheduled Maintenance**: As needed during the project lifecycle.
- **Backup Recovery**: Recovery within 12 hours for small-scale data.
- **Error Rate**: < 1% for prototype-level functionality.

3.4 Design Constraints

Standards Compliance

4) GDPR compliance

5) WCAG 2.1 accessibility
6) ISO/IEC 27001 security
7) Browser standards

Development Constraints

8) Web-based architecture
9) Responsive design
10) Modular components
11) API-first approach

3.5 Software System Attributes

Reliability

1. Error handling to ensure data integrity.
2. Input validation for all user entries.
3. Transaction integrity for financial processes.
4. System recovery after failures.

Availability

1. Redundant Systems: Ensure continuous, round-the-clock functioning of the platform.
2. Failover Mechanism: Enables the system to handle server disruptions by automatically switching to backup systems.

Security

1. Robust authentication systems.
2. Authorization for sensitive operations based on roles.
3. Data encryption from beginning to end.

Maintainability

1. Modular design for easier updates.
2. Comprehensive documentation for developers and users.
3. Version control for all software components.
4. Automated testing frameworks.

Portability

1. Cross-browser compatibility.
2. Mobile responsiveness.
3. Platform independence to run on various operating systems.
4. Easy deployment for scaling and updates.

4. Effort Spent

Team Member Contributions

Team Member	**Task**	**Hours Spent**
Shreesh Kumar Jha	Requirements Analysis, Frontend Mockups, Frontend Setup	31
Samarth Bhatia	Requirement Analysis, UML Diagrams, Frontend Setup	30
Satvik Sharma	Requirement Analysis, UML Diagrams, Backend Setup	30

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