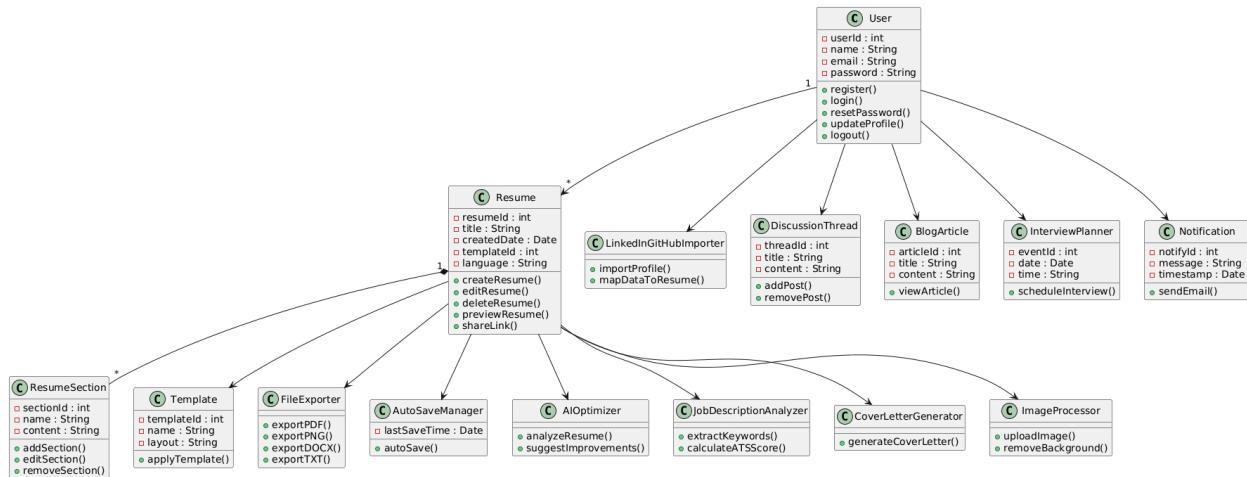


ResuMate: AI-Based Resume Builder System

Assignment 1, Sec: 4

Name	ID
MD Touhidur Rahman	22101446
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1. Class Diagram



2. Functional Requirements

REQ-1: User Account & Authentication

- User Registration** – Users can register with name, email, and password.
- User Login** – Secure login using email and password.

3. **Password Reset** – Forgot password feature with email verification.
4. **Profile Management** – Update user info, photo, and preferences.
5. **Logout** – End user session securely.

REQ-2: Resume Management & Creation

6. **Create Resume** – Create a new resume from scratch or AI suggestion.
7. **Edit Resume** – Add or modify personal, educational, and work details.
8. **Delete Resume** – Permanently remove unwanted resumes.
9. **Resume Preview** – Live preview in real-time while editing.
10. **Resume Sharing** – Generate and share an online link for the resume.

REQ-3: AI-Powered Optimization & Personalization

11. **AI Resume Optimizer** – Analyze uploaded resume and suggest improvements.
12. **Job Description Analyzer** – Extract key skills & match resume for ATS score.
13. **Cover Letter Generator** – Create personalized cover letter based on job description.
14. **Image Optimization** – Upload profile photo and remove background using AI.
15. **Template Recommendation** – Suggest templates based on job domain or field.

REQ-4: File Management & Customization

16. **Download Resume** – Export in PDF, JPG, PNG, DOCX, or TXT.
17. **Autosave Progress** – Automatically save user edits.
18. **Dark/Light Mode Toggle** – Switch themes for user preference.
19. **Language Selection** – Generate resumes in multiple languages.
20. **Drag-and-Drop Sections** – Reorder resume sections easily.

REQ-5: Community, Integration & Career Tools

21. **Job Discussion Forum** – Users can discuss and seek suggestions.
22. **Blog Articles** – Read and share career advice and writing tips.
23. **Interview Planner** – Schedule upcoming interviews and set reminders.
24. **LinkedIn/GitHub Import** – Auto-fill resume fields from connected profiles.

25. **Email Notifications** – Send updates about new templates or reminders.

3. Non-Functional Requirements

- **Performance:** The system should load resume previews in under 2 seconds.
- **Usability:** Clean UI/UX design with simple navigation for all age groups.
- **Security:** All passwords encrypted; resumes stored securely with limited access.
- **Reliability:** Auto-save prevents data loss during power or network failure.
- **Integration:** Connects with external APIs like LinkedIn, GitHub, and Google Drive.
- **Compatibility:** Responsive web design; compatible with mobile and desktop browsers.
- **Availability:** System uptime of at least 99.5%.
- **Maintainability:** Modular code for easy updates and feature addition.

4. System Overview / Scope

The **AI-Based Resume Builder Application** allows users to create, edit, and share professional resumes using intelligent features.

It combines **AI tools (for optimization, scoring, and content generation)** with **community interaction** and **career guidance**.

Users can tailor their resumes for specific job postings, generate personalized cover letters, and export in multiple formats — all within a modern, accessible interface.