Assignment 2: Software Requirements Specification

Team: Group 1

Project Title: Athen A.I.

Members:

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Meetings date	Participants
Fridays at 5pm on Discord	Everyone

Stakeholders	Requirements
Current Students/Graduates	User login, skillset/career, user aspirations, posts, homepage, calendar, notifications, resume builder
Colleges	Homepage, group postings, internship posts, messaging
Employers	Internship posts, messaging
Administration	Ai libraries, Portability, Safety, Reusability, Dependability, Performance, Scalability

FR1. User Login/Registration
Goal: The system will allow users to register using an email (both school and personal), Google, LinkedIn, and other platforms.
Stakeholders: Users
Description: We want our app to have the modern functionality of many other apps for user logins. Having parity with Google and LinkedIn offers a user-friendly method of signing up and logging in.
Origin: Based on the initial project specification document, team members came up with this description during the first meeting.
Version: 1.0
Date: 3/10/2025
Priority: 1

FR2. User's current skillset/career
Goal: The system will allow users to set up their profile with their current skillset, educational background and career experience.
Stakeholders: All users
Description: Once registered, the system will allow users to input their current skills and areas of expertise for their profile. This information will be used to tailor the user's learning path and identify areas where improvements can be made. Users can also update their skillset as they gain work experience, complete courses, earn certifications and acquire new skills.
Origin: Based on the initial project specification document, team members came up with this description during the first meeting.
Version: 1.0
Date: 3/10/2025

Priority: 1

FR3. User's aspirations
Goal: The system will allow users to write down the job they want.
Stakeholders: Students, Recent Graduates, Alumni
Description: While developing their account, users will be able to describe the type of job they are looking for. This entails things such as: what they would like to do on a daily basis, what position they want to hold, the income they are looking for, where they want to work, and more. The user should be able to update this whenever they please.
Origin: Based on the initial project specification document.
Version: 1.0
Date: 3/10/2025
Priority: 1

FR4. User program posts/projects
Goal: The system will allow users to post and discuss projects.
Stakeholders: Students, Recent Graduates, Alumni, Employers
Description: On the website, users will be able to create posts about projects they are working on. This can include posting code snippets or working demos. This will allow other users to learn, get inspired, and can serve as a portfolio when applying for positions. This final purpose will allow employers to see real projects completed by the user rather than just a resume.
Origin: Our group came up with this in our second meeting.
Version: 1.2

Date: 4/4/2025
Priority: 3

FR5. Accessibility features
Goal: The system will provide accessibility features to ensure an inclusive user experience for individuals with disabilities.
Stakeholders: Users, including those with visual, auditory, motor, and cognitive impairments
Description: AthenA.I. will implement accessibility features such as screen reader compatibility, keyboard navigation, adjustable font sizes, and high-contrast mode. These features will ensure users of all abilities can navigate the platform and engage with its functionalities without barriers.
Origin: Our group planned to have accessibility features on our second meeting.
Version: 1.4
Date: 4/18/2025
Priority: 5

FR6. Homepage
Goal: The homepage will be a very important part of AthenAI because it is the first thing user will see. The homepage will display all the different features and links AthenAI will offer and be easy to use.

Stakeholders: Students, Employers, Recent Graduates, AthenAI Administrators, College Administrators
Description: The homepage will give visitors and users of the site information about what the AthenAI website does. There will be many different links allowing users to navigate the website. Some of the links include but are not limited to: create account, login, job postings, your skills, your goals, highlights/achievements in your field of study, internships, goal tracker, communities, messages, about us, events. The homepage is of course the first point users will interact with the AthenAI website, so we want its design and functionality to be straightforward, useful, informative and pleasant.
Origin: Based on the initial project proposal document, team members developed this description during the project planning phase to establish core user experience requirements.
Version: 1.0
Date: 3/10/2025
Priority: 2

FR7. Goal tracker
Goal: To create a page that enables users to set, track, and manage their goals related to securing employment, earning certifications, acquiring new skills, and hiring talent
Stakeholders: Students, Recent Graduates, Employers
Description: The Goal Tracker page helps users set, monitor, and achieve their professional goals efficiently. Whether landing a job, earning certifications, or acquiring new skills, users can create personalized milestones and track their progress. The Goal Tracker keeps users focused and motivated with intuitive tools, notifications, and actionable insights. Students can acquire new skills and gain essential knowledge for landing jobs. Recent graduates can set goals for job applications and earning certifications. Employers can track their hiring progress and monitor potential candidates.

Origin: Origin: Based on the initial project specification document, team members came up with this description during the first meeting.
Version: 1.2
Date: 4/4/2025
Priority: 3

FR8. AI libraries for user information
Goal: The system will use AI libraries (TensorFlow) to analyze and make suggestions based on the user's profile and the current job market trends.
Stakeholders: All users
Description: The AI libraries will process and analyze user data to identify available jobs and in-demand skills matching their profile. By providing recommendations based on current trends, users can delve deeper into their current expertise or choose to explore new skills as the job market evolves. The AI libraries will help optimize the learning path that is best suited for the user.
Origin: Origin: Based on the initial project specification document, team members came up with this description during the first meeting.
Version: 1.0
Date: 3/17/2025
Priority: 2

FR9. Internship Postings
Goal: The Internship Postings page will assist students and recent graduates wanting to get an internship in whatever field of study they are interested in so that they may develop their skills even more and possibly achieve the job they would like to have.

Stakeholders: Students, Employers, Recent Graduates, AthenAI Administrators, College Administrators
Description: When employers make an internship posting the post will include such details as what is the particular area of study the internship is in, the geographic location of the internship, the timeline of the internship, what the pay is for the internship (if any), what other kinds of benefits are there for the internship (e.g. health care, 401k, discounts), skill and/or knowledge requirements, when the internship was posted, deadline to apply to the internship, and possibly other details. All these details will allow a feature on the Internship Page to allow students to be able to search for any particular aspect they would like in their internship, like for instance a geographic location or the type of compensation they are looking for in the internship. Since AthenAI is an AI assisted website there will be features such as internship recommendations based on the user's input such as their field of study, where they live, their skills, their certificates, their knowledge, etc. AthenAI will not only make recommendations to students but to employers as well who are looking for students to fill their internship positions.
Origin: Based on the initial project proposal document, team members developed this description during the project planning phase to establish core user experience requirements.
Version: 1.4
Date: 4/18/2025
Priority: 5

FR10. Messaging System
Goal: Allow users to message one another, including listed employers.
Stakeholders: Students, Recent Graduates, Alumni, Employers
Description: All users should be able to message each other to discuss opportunities and general subjects. This can include messaging listed employers to learn about job postings, requirements, etc. This will facilitate a community around AthenAI and will foster continued learning.

Origin: Idea generated during team meeting 2
Version: 1.4
Date: 4/18/2025
Priority: 5

FR11. Communities/Discussion board
Goal: To create the ability for users to communicate with each other in discussion boards. To increase a sense of community for likeminded individuals
Stakeholders: Students, Recent Graduates, Alumni
Description: All users will have access to various discussion boards. These boards will be topic specific. Users will be able to send posts to a discussion board, and other users can respond. Additionally, users can share insights and help other users learn and grow. All topics will come with spaces for discussion.
Origin: Based on the initial project specification document, team members came up with this description during the first meeting.
Version: 1.4
Date: 4/18/2025
Priority: 5

FR12. Resume builder/helper
Goal: The system will implement a resume builder tool that will assist users in creating a professional and tailored resume based on their profile.
Stakeholders: All users
Description: The resume builder tool will allow users to generate resumes showcasing their skills, experience, and projects they have worked on. It will also offer customizable

templates which users can edit to. Users can generate multiple versions of their resume, each tailored for different career paths if they choose. The resume builder may also suggest keywords for specific skills.

Origin: Based on the initial project specification document, team members came up with this description during the first meeting.

Version: 1.4

Date: 4/25/2025

Priority: 5

FR13. User dashboard

Goal: To implement a page in which a user can see all of their job recommendations, learning opportunities, and career insights.

Stakeholders: All Users

Description: The User Dashboard is a centralized space for users to view personalized job recommendations, learning opportunities, and career insights. It acts as a hub to track career progression, stay updated on job openings, and discover skill enhancement opportunities. Designed for clarity and organization, the dashboard enables users to act quickly on relevant insights. With an intuitive interface and tailored content, it empowers users to take control of their career journey and make informed decisions.

Origin: Based on the initial project specification document, team members came up with this description during the first meeting.

Version: 1.2

Date: 4/4/2025

Priority: 3

FR14. Personalized Learning Pathways

Goal: To give users direction in their learning and use of AthenAI
Stakeholders: Students and graduates
Description: After inputting personalization details, a user will be given "courses" with the purpose of aiding the user in maximizing their learning. It will match with their user specifics, such as desired job and major. Courses will give direction to what people need to get a job in their career field. Courses will show progression in an appealing way and encourage users to keep working.
Origin: Based on the initial project specification document, team members came up with this description during the first meeting.
Version: 1.2
Date: 4/4/2025
Priority: 3

FR15. Notification system
Goal: The system will allow email notifications to be sent to users.
Stakeholders: Students, Recent graduates, administration.
Description: The ability to subscribe to notifications will be available to users. Notifications will be modular, allowing users to turn on notifications for certain aspects of AthenA.I., such as group posts, internship postings, reminders, messages, and more.
Origin: After the second meeting of the SRS document, the team considered a notification system to be necessary
Version: 1.4
Date: 4/17/2025
Priority: 5

FR16. Calendar

Goal: The system will include a calendar feature that allows users to track learning progress, deadlines, and upcoming events related to their personalized learning pathways

Stakeholders: Users

Description: Users will be able to add custom events, receive reminders for deadlines, and sync with external calendar services (e.g., Google Calendar, Outlook).

Origin: Based on initial project specification document, team members came up with this description during the first meeting.

Version: 1.4

Date: 4/17/2025

Priority: 5

NFR1. Portability

Goal: The system will be accessible across multiple devices and operating systems to ensure a seamless user experience regardless of platform.

Stakeholders: Users

Description: Athen A.I. will be designed as a responsive web application, ensuring compatibility across desktops, tablets, and mobile devices. The system shall support major browsers (Chrome, Firefox, Edge, Safari) and provide a consistent experience across Windows, macOS, Linux, Android, and iOS

Origin: Based on initial project specification document, team members came up with this description during the first meeting.

Version: 1.0

Date: N/A

Priority: 1

NFR2. Safety
Goal: To ensure the safety of user data and system integrity by using security measures that will make sure the AthenAI platform is protected.
Stakeholders: Students, Employers, Recent Graduates, AthenAI Administrators, College Administrators
Description: AthenAI will have a safety feature such as what kind of access users get when using the website. Other safety measures include monitoring when users access the website, when they log in and make use of AthenAI website features. This can be done with cookies and recording IP addresses. There will be requirements for usernames and passwords where they must be a certain length, and passwords must contain lower case and upper-case letters, they must include at least one special character and must include at least one number. AthenAI will use firewalls and encryption to defend the servers that store user information and data as well as anyone trying to attack or get information on the AI being used on AthenAI.
Origin: Based on the initial project proposal document, team members developed this description during the project planning phase to establish core user experience requirements.
Version: 1.0
Date: N/A
Priority: 1(Highest)

NFR3. Reusability
Goal: Code will be able to be independently structured, allowing it to be used multiple times with minimal rewrites.

Stakeholders: Administrators
Description: The code written for AthenA.I. will be made with adaptability in mind. Code will be able to be adapted into multiple scenarios. This is so that code will not need to be constantly rewritten, saving time and energy. Component based code ensures fewer errors and headaches can be avoided.
Origin: One of the given non-functional requirements.
Version: 1.0
Date: N/A
Priority: 1

NFR4. Dependability
Goal: AthenAI will have 99% up time.
Stakeholders: All users
Description: AthenAI will be able to access all functions and databases during up time. Additionally, AthenAI's databases will always have storage to store more user credentials and other various data.
Origin: One of the given non-functional requirements
Version: 1.0
Date: N/A
Priority: 1

NFR5. Performance
Goal: AthenAI will work quickly and efficiently.

Stakeholders: All users
Description: AthenAI is meant to have real-time intractability with users, and therefore needs to function in a reasonable timeframe. This will allow users to maximize the effectiveness of the tool and not waste any unnecessary time.
Origin: One of the given non-functional requirements
Version: 1.0
Date: N/A
Priority: 1

NFR6. Scalability
Goal: AthenAI should function smoothly with a large number of users, meeting demand.
Stakeholders: All users
Description: AthenAI might have a large demand, and it shouldn't slow down. Multiple users should be able to actively use the site simultaneously without unnecessary interruptions.
Origin: One of the given non-functional requirements
Version: 1.0
Date: N/A
Priority: 1