

Development and Implementation of an AI-Based Scalable Platform: A Case Study of Scalova AI

Internship (CSE 4099-A) submitted in partial fulfillment of the requirements for the degree of

Bachelor of Science in Computer Science and Engineering

by

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

UNIVERSITY OF LIBERAL ARTS BANGLADESH

SPRING 2026

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DECLARATION

Project Title	Development and Implementation of an AI-Based Scalable Platform: A Case Study of Scalova AI
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I declare that this internship entitled *Development and Implementation of an AI-Based Scalable Platform: A Case Study of Scalova AI* is the result of my own work except as cited in the references. The internship (cse 4099-a) has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.

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Date: April 21, 2026



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CERTIFICATE

This is to certify that the internship entitled **Development and Implementation of an AI-Based Scalable Platform: A Case Study of Scalova AI**, submitted by **Kh Taqi Tahmid Sudipta** (Student ID: 203014010) an undergraduate student of the **Department of Computer Science and Engineering** has been examined. Upon recommendation by the examination committee, we hereby accord our approval of it as the presented work and submitted report fulfill the requirements for its acceptance in partial fulfillment for the degree of *Bachelor of Science in Computer Science and Engineering*.

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Place: Dhaka

Date: April 21, 2026

ACKNOWLEDGEMENTS

I would like to express my deep and sincere gratitude to my academic supervisor, *Md. Nazmul Abdal*, for providing invaluable guidance throughout this work. I would also like to sincerely thank my industry supervisors, *Abrar Habib* and *Motiullah Sajit*, for their continuous support, practical insights, and valuable mentorship during my internship. Their dynamism, vision, sincerity and motivation have deeply inspired me. They have taught me the methodology to carry out the work and to present the works as clearly as possible. It was a great privilege and honor to work and study under their guidance.

I am greatly indebted to my honorable teachers of the Department of Computer Science and Engineering at the University of Liberal Arts Bangladesh who taught me during the course of my study. Without any doubt, their teaching and guidance have completely transformed me to a person that I am today.

I am extremely thankful to my parents for their unconditional love, endless prayers, caring and immense sacrifices for educating and preparing me for my future. I would like to say thanks to my friends and relatives for their kind support and care.

Finally, I would like to thank all the people who have supported me to complete the project work directly or indirectly.

Kh Taqi Tahmid Sudipta

University of Liberal Arts Bangladesh

Date: April 21, 2026

Dedicated to
*myself and everyone who
supported me*

– *Kh Taqi Tahmid Sudipta*

EXECUTIVE SUMMARY

My internship at Aaladin AI has equipped me with a great experience of how AI-based platforms today work in a real-life situation. The main goal of such internship was to fill the gap between the theoretical subject and its application through the help of an industry level application.

Throughout the internship, I primarily worked on the analysis and interpretation of the workflow of Scalova AI, an artificial intelligence-based tool that would generate content depending on what the user inputted. This experience allowed me to understand the process of receiving user interaction through a structured system, comprising of stages such as input validation, backend request processing, AI-generated content generation, and delivering outputs.

I also gained a better idea about how AI-based systems are dependent on the quality of input and how refinement enhances accuracy of output. Being exposed to such a system enabled me to acquire knowledge on the actual application architecture, system processes, and how AI models can be incorporated into user-facing platforms.

My problem-solving skills and ability to think also improved during the internship through observing system behavior and learning how various components of an entire software ecosystem interact.

In general, this internship experience played a crucial role in my professional growth as it helped me to deepen my knowledge of AI-based applications and equip me with the challenges that I will face in software development and artificial intelligence in the future.

Keywords: Artificial Intelligence, AI-based Platform, Content Generation, System Workflow, User Input Processing, Scalova AI.

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Chapter 1

Introduction

The development of the Artificial Intelligence (AI) has hugely changed the works of contemporary software development, allowing the development of intelligent, scalable, and efficient systems to be implemented to the real world. With the expansion of AI-oriented solutions in the industry, the need to unite intelligent automation with user-friendly interfaces and scalable architectures in a platform is increasing rapidly.

Working as a Junior Software Developer at Aaladin AI, I was able to work on the creation of an AI-based platform, Scalova AI, that is created to provide scalable and smart solutions to its users. This internship has helped me to fulfill the gap between theory and practice in the field of work, by providing the opportunity to practically work with real-world software systems.

The project entailed the design, development and improvement of various aspects of the platform, relating to performance, usability and scalability. This experience provided me with hands-on knowledge about software engineering processes, team development, and the process of incorporating AI-powered features into a full-scale system.

1.1 Aims, Objectives and Motivation

1.1.1 Aim

The main goal of the internship was to work on the creation of the scalable AI-based platform, Scalova AI, implementing the current software development standards and incorporating the intelligent system elements.

1.1.2 Objectives

- To observe and be involved in the lifecycle of development of a real world based application using AI.
- To plan and develop scaled up and efficient software modules.
- To incorporate the AI-powered elements in a working platform.
- To enhance the performance, usability and maintainability of the systems.
- In order to acquire hands-on experience in collaborative development in workplace setting.

1.1.3 Motivation

The main idea behind this project is the growing significance of AI in identifying solutions to various real-world problems. The traditional software systems are usually not flexible and intelligent, but AI-driven solutions can be dynamic and data-driven.

The experience of working on Scalova AI gave me a chance to look into the challenge of how AI can be properly implemented in scalable systems to improve user experience and efficiency. Moreover, this internship helped me to enhance my technical competencies, develop problem-solving skills, and acquire experience on the industry level, which is important to working in the field of software engineering and AI development.

Chapter 2

Background

Due to the accelerated growth of artificial intelligence, digital platforms have been revolutionized in the contemporary world, especially in aspects like automation, decision-making through data, and scalable web solutions. Since AI-powered systems improve user experience, optimize business processes, and provide intelligent services, organizations across the globe are increasingly adopting AI systems.

Aaladin AI is a new technology-based firm that specializes in creating AI-based applications that combine machine learning, data analytics, and scalable software infrastructure. The company is committed to closing the gap between creative AI research and practical applications by developing intelligent platforms that are capable of keeping up to date with the needs of dynamic users.



Figure 2.1: Logo of Aaladin AI

At the time of the internship, the main project engagement was with Scalova AI, an AI-based scalable platform that aims to deliver smart automation and intelligent services delivery. Its platform focuses on performance, scalability, and user-friendly design, utilizing the latest technologies, including cloud, backend, and AI-based modules.

Such platforms need a mixture of software engineering principles and methods of AI integration to develop. This covers the system design, front-end/ backend interaction, data processing and deployment strategies. The experience of working in this setting made it possible to learn about the real-world software development experience, such as collaborative software development, version control, debugging, and feature implementation.

This internship provided a hands-on working experience on how to create and sustain scalable AI-based applications, which made it possible to apply theoretical knowledge to industry-level problem-solving techniques. It also reflected the significance of effective system architecture and the use of AI in developing the next-generation digital solutions.

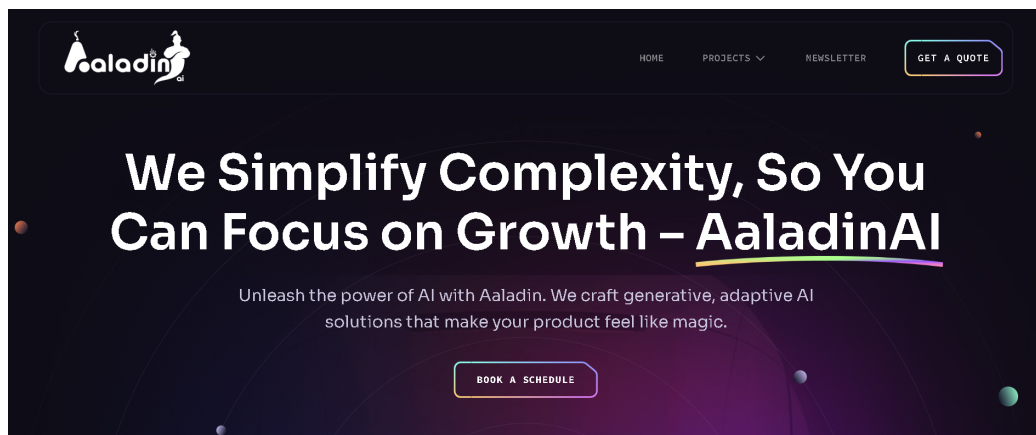


Figure 2.2: Front page of Aaladin AI

2.1 Mission and Vision

2.1.1 Mission

The Aaladin AI mission is to make complex technological issues simpler by effectively using artificial intelligence and state-of-the-art software engineering techniques. The company aims at creating intelligent, adaptive, and scalable AI-based solutions that help businesses increase productivity, automate their workflows and make data-driven decisions. With a combination of AI studies, agile development techniques, and team-based design solutions, Aaladin AI will introduce high-quality solutions, efficient, reliable, and specific to the needs of the real business.

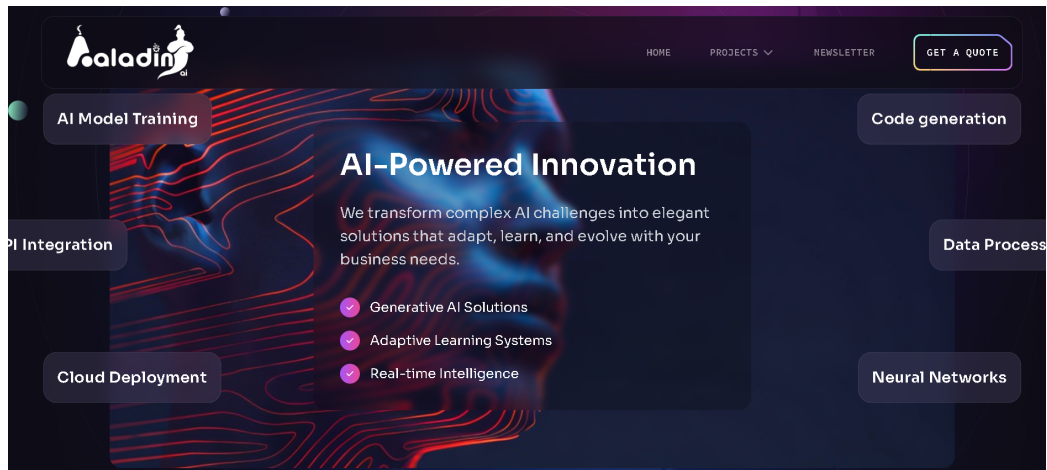


Figure 2.3: Another page of Aaladin AI

2.1.2 Vision

The Aaladin AI vision is to be a top provider of AI-based solutions to digital transformations by designing intelligent, scalable, and accessible platforms. The company hopes to fill the gap between the developed AI technologies and real-life applications so that organizations can apply AI smoothly in their work. By constantly innovating and strategically developing, Aaladin AI is looking to achieve a future in which AI-driven systems are central to business expansion, productivity, and competitiveness.

2.2 Scalova AI

2.2.1 Overview of the Project

Scalova AI is a platform based on AI that helps entrepreneurs and businesses to turn ideas into full-fledged products and services. The platform serves as an AI co-founder, allowing users to create business assets like websites, branding content, marketing content, and legal documents with little manual effort. It will help speed up the process of turning ideas into products by automating the complicated and time-intensive processes.

2.2.2 System Architecture and Development Approach

The system is created as a web based application that is scalable in accordance with the current software engineering principles. It combines the frontend user interface and backend APIs to get in touch with AI-based processing modules. The architecture is probably based on a modular design, with various modules (content generation, document creation and branding tools) being autonomous but interconnected services.

2.2.3 Algorithms and Technologies used

Scalova AI is mainly based on the latest Artificial Intelligence and Machine Learning methods, especially:

- Large Language Models (LLMs): These models are utilized to produce text-based solutions like business plans, proposals, and marketing copies.
- Generative AI Models: These are employed to generate logos, images, videos, and branding.
- Natural Language Processing (NLP): This allows the system to respond to user prompts and create context-based replies.
- Template-based + AI Hybrid Systems: A hybrid approach with structured templates and AI-generated content to achieve accuracy and consistency.
- Cloud Computing and API Integration: Ensures scalability and fast processing

2.2.4 Benefits and Impact on Users

Scalova AI can be of great benefit to users, especially startups and entrepreneurs:

- Minimizes the time taken to start a business.
- Eliminates the necessity of several tools or teams.
- Offers affordable options in comparison to conventional development.
- Allows non technical users to produce professional outputs.

- Offers are end-to-end in terms of generating ideas to implementation.

Scalova AI is a platform that improves productivity, efficiency and access to the startup system by offering several functionalities in one platform.

Chapter 3

Scope of work

My set of work at Aaladin AI was aimed at assisting the creation and testing of an AI-driven web solution, namely Scalova AI. Being a junior software developer intern, my tasks were streamlined with helping to facilitate the current development process, enhance the usability of a system, and learn about the process of the workflow of an AI-sustained application.

I was working on the following areas:

- **Understanding System Workflow:**

I learned about the general structure and functionality of the platform, including the processing of user inputs and the presentation of AI-generated results. This made me have a clear picture on the functioning of real-world AI systems.

- **Frontend Interaction and UI Support:**

I helped to review the user interface elements and make them better to provide more usability and easier interaction. It involved tracing user paths and proposing slight changes in the design and responsiveness.

- **Feature Testing and Check:**

I also participated in trials of various functionalities of the platform to verify the appropriate functionality. This involved bug determination, verification of outputs and reporting discrepancies to enhance system reliability.

- **Understanding API and Data flow:**

I handled API responses at a fundamental level to realize the flow of data between frontend and backend parts. This assisted me in becoming familiar with the way of how modern web applications process dynamic content.

- **AI Output Evaluation:**

I evaluated AI-generated outputs to evaluate their relevance, structure, and usability. This helped to enhance the quality of the content generated.

- **Team Collaboration and Development Practices:**

I was engaged in a collaborative development space, where I was exposed to version control, task management, and workflows in teams as applied in professional software development.

Chapter 4

Internship Activities

4.1 Work Accomplishment (Weekly Progress Overview)

4.1.1 Learning and Understanding

Week 1 (January 2 – January 8, 2026):

Worked with organization Aaladin AI as a Junior Software Developer Intern. Got acquainted with working experience, developmental tools, and overall goals of the Scalova AI platform. Understood the basic workflow of the system and explored different features of the platform.

Week 2 (January 9 – January 15, 2026):

Researched the architecture and interaction of the user flow of Scalova AI. Has seen the process of user inputs and output of AI-generated products. Acquired the first knowledge of frontend-to-backend communication.

Week 3 (January 16 – January 22, 2026):

Began to help with frontend work including checking UI elements and finding usability problems. Recommended small changes in design and reactivity.

Week 4 (January 23 – January 29, 2026):

Engaged in testing of various modules in the platform. Reported bugs and discrepancies and reported them to the development team to rectify.

4.1.2 Contribution and Practical Involvement

Week 5 (January 30 – February 5, 2026):

Learned about API responses to learn how dynamic data is incorporated into the frontend. Monitored the interactions between backend services and user interfaces.

Week 6 (February 6 – February 12, 2026):

Compared AI-generated outputs on various tools of the platform. Assessed the applicability and format of content generated and gave feedback to enhance.

Week 7 (February 13 – February 19, 2026):

Helped in streamlining user processes by determining locations where the user process can be made easier. Concentrated on enhancing the usability of the platform in general.

Week 8 (February 20 – February 26, 2026):

Continued testing and validation of platform features after updates. Made sure that the issues that were reported before were fixed and that no new issues were brought forward.

Week 9 (February 27 – March 5, 2026):

Better insights into the integration of AI modules into the system. Monitored the processing of prompts and the way outputs are produced.

Week 10 (March 6 – March 12, 2026):

Worked on a team based on version control systems. Noticed code updates, commits, and team-based development practices.

4.1.3 Analysis, Refinement and System-Level Understanding

Week 11 (March 13 – March 19, 2026):

Helped to test the new features added and made sure that they did not conflict with existing modules. Concentrated on stability of the system.

Week 12 (March 20 – March 26, 2026):

Performed extensive testing of various tools in the platform. Tested output reliability and functionality in various applications.

Week 13 (March 27 – April 2, 2026):

Concentrated on enhancing the knowledge of system-level design and workflow. Analyzed the interaction of various modules in the platform.

Week 14 (April 3 – April 9, 2026):

Helped to test and validate in final stages before updates. Assured that the performance and usability of the platform were up to expectations.

Week 15 (April 10 – April 17, 2026):

Final documentation of work done and summarized learning outcomes. Overall

internship experience reviewed and acquired knowledge about the real-world software development based on AI.

4.2 Challenges Faced

During my internship at Aaladin AI, I encountered several practical challenges while working on the Scalova AI platform. These challenges contributed significantly to my learning and helped me understand real-world software development environments.

- **Understanding a Complex AI-Based System**

One of the primary challenges was understanding the workflow of an AI-integrated platform. Unlike traditional applications, the system involved many components such as user input processing, AI-generated outputs, and backend services. Initially, it was difficult to fully grasp how these components interacted, but through continuous observation and guidance, I gradually developed a clearer understanding.

- **Limited Exposure to Backend and AI Models**

As an intern, my access to core backend systems and AI model implementations was limited. This made it challenging to understand the internal workings of the AI modules in detail. However, I focused on understanding system behavior through inputs and outputs, which helped me learn how such systems function in practice.

- **Interpreting AI-Generated Output**

Evaluating the quality and relevance of AI-generated content was sometimes challenging, as outputs could vary depending on user inputs. It required careful observation and repeated testing to identify patterns and assess whether the results met expected standards.

- **Adapting to Industry-Level Development Practices**

Transitioning from academic projects to a professional development environment was initially challenging. Understanding version control workflows, team collaboration, and structured development practices required time and adaptation.

- **Debugging and Issue Identification**

Identifying bugs and inconsistencies in a large-scale system was not always straightforward. Some issues were not immediately visible and required repeated testing and careful analysis to detect and report effectively.

- **Communication and Requirement Understanding**

At times, understanding task requirements and communicating observations clearly with team members was challenging. However, this improved over time as I gained more confidence and familiarity with the project.

Chapter 5

Methodology

5.1 System Workflow Methodology

The workflow adopted in the internship is premised on the functional workflow of the Scalova AI platform, which processes user inputs and creates AI-based outputs in a structured pipeline. The overall workflow is illustrated in the activity diagram and can be described step-by-step as follows:

- **User Access and Authentication**

This starts when a user visits the platform. The system begins by checking the existence of the user who is already logged in. In case the user is not logged in, he or she has to go through the registration or the login process. In case of an authenticated user, they are taken to the platform functions.

- **Tools choice and submission of inputs**

Once the user logs in successfully, he/she chooses a certain AI tool to use, depending on his/her need. A prompt or input is then given by the user and this acts as the guidance to the generation of content.

- **Input Validation**

The system checks the input to verify that it is correct and complete before processing. This measure eliminates the possibilities of sending invalid or incomplete requests to the backend.

- **Backend Processing and AI Integration**

The input is forwarded to the backend system once it is validated. The input is processed by the backend that interacts with AI models. The AI model deciphers the prompt and produces pertinent output depending on the learned patterns and information.

- **Display and Generation of output**

The response generated is fed back to the system after processing. The product is then presented to the user in a way that he/she can understand.

- **Iterative User Interaction**

In case the user does not get the desired result, he/she can change the input prompt. The revised input is again processed to come up with better output.

- **Export and Saving Results**

The user is able to write out the output produced to their history, or download the result to use externally.

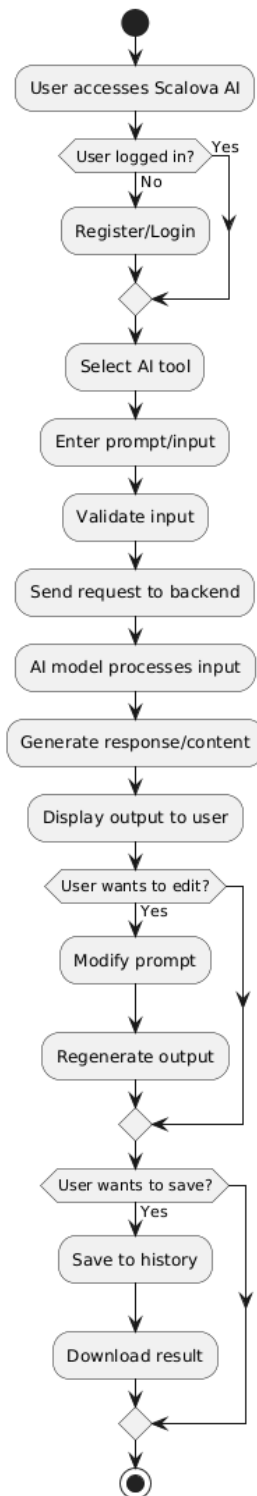


Figure 5.1: Process Activity Diagram of Scalova AI

Chapter 6

Analysis and Findings

My internship experience at Aaladin AI involved working on the scalova AI platform, including the workflow and functionality analysis of the platform, i.e., how the user input is processed and converted into meaningful AI-generated output. The analysis was mainly done through the interaction of the system, feature observation and evaluation of the output.

6.1 System Workflow Efficiency

The platform uses an organized and effective workflow, which begins with user authentication and ends with the output generation. Each of the steps is clearly defined: the input submission, validation, backend processing, and output delivery, to make users interact with each other. The pipeline which is step-by-step minimizes errors and improves usability.

6.2 Effectiveness of AI-Based Content Generation

The system shows a great capability in creating pertinent and contextual output to user prompts. It was found that:

- Well-structured and clear inputs created better outputs.
- Less precise responses were due to vague inputs.

This shows that the quality of input is critical to the performance of the system, as is common in AI-based systems.

6.3 Significance of Input validation

Validation step is important in ensuring system stability. The platform prevents unfinished or wrongful inputs to be processed beforehand, minimizing unwarranted backend load and making the output generation more predictable.

6.4 Interactive and Control over Users

The support of the system in the process of the iterative refinement is also one of the important findings. Users are able to edit their prompts and re-generate results, which enhances accuracy of the results and user satisfaction. This is an iterative loop which makes the platform flexible and user-friendly.

6.5 Performance Consistency

The system exhibited a consistent response to multiple requests through repeated testing and observation. The process of response generation was stable, and the results were provided in a reasonable time frame, which means that the backend was handled efficiently.

6.6 Hands-on knowledge of AI Implementation

The internship has given an understanding of the implementation of AI models into practice. The analysis did not concentrate on the model-level implementation but rather on:

- The reaction of AI to various kinds of inputs.
- The ways AI interacts with system design.
- The improvement of the user experience with the help of AI.

6.7 Limitations Observed

Certain limitations were also found:

- The quality of output is dependent on the clarity of input.
- Poor access to AI model processes.
- Sometimes many iterations are required to get required results.

Such drawbacks are typical of AI-based systems and point to the possible ways of bettering the situation.

Chapter 7

Conclusion and Recommendations

7.1 Conclusion

The Aaladin AI internship was a helpful practical experience of how an AI-based platform should be developed and operate. By using the Scalova AI system, I was able to clearly understand the organization of modern AI-driven applications, starting with user interaction and ending with the processing and generating outputs of the application.

The entire system exhibits effective workflow in which user inputs are fed into a structured pipeline, verified and subsequently processed by AI models to generate valuable outputs. The platform is iterative; thus, it enables users to optimize their inputs, resulting in improved outputs and user experience.

Through the internship, I gained a better sense of reality of software development practices, such as system workflow design, feature analysis and user-centric thinking. The experience also contributed to closing the gap between the knowledge and practical application, particularly, in the field of AI-integrated systems.

In spite of some constraints, like reliance on the quality of inputs and lack of transparency on how the internal models work, the platform is effective and shows the potential of AI in addressing real-life problems.

7.2 Recommendations

Based on the analysis and observations, the following recommendations can further enhance the system:

- **Improved Input Guidance**

Suggesting or giving examples of what the user can write better can greatly enhance the quality of output.

- **Enhanced Error Handling**

More descriptive feedback on invalid or unclear inputs can assist the user to comprehend and rectify their errors at a convenient time.

- **User Interface Optimization**

More advances in the field of UI/UX design will help to make the platform easier to use and more welcoming, particularly when using it the first time.

- **Performance Optimization**

The efficiency of the entire system can be enhanced by reducing the time of response and streamlining the backend processing.

- **Feature Expansion**

Introducing additional AI tools and functionalities can increase the versatility of the platform.

- **User History and Analytics**

The analytics or usage insight addition to the history feature can be more valuable to the users.

Chapter 8

Appendix

8.1 Appendix

- Appendix: Scalova AI is a AI powered platform on which I have worked on for the company. You can visit it here: [Scalova AI](#)

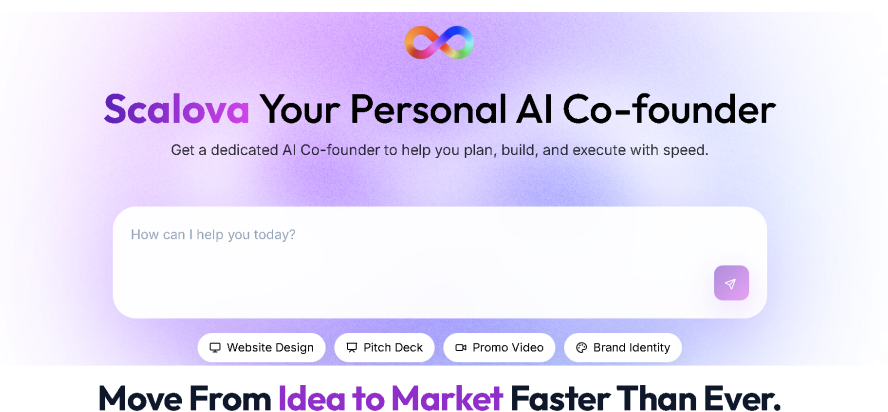


Figure 8.1: Users can give their desired prompt to generate their desired output

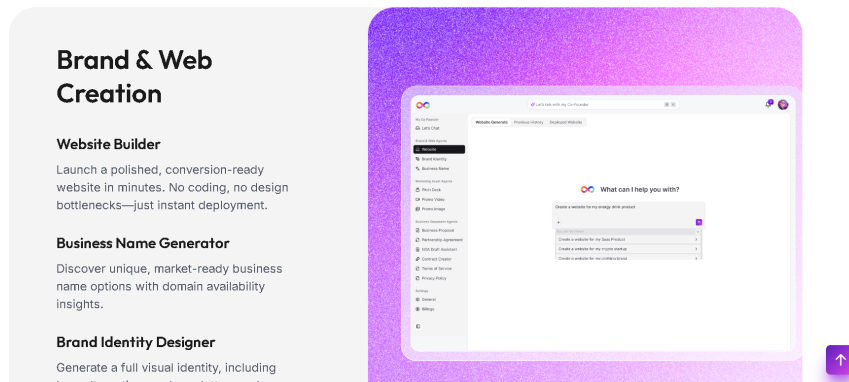


Figure 8.2: Design your brand and business

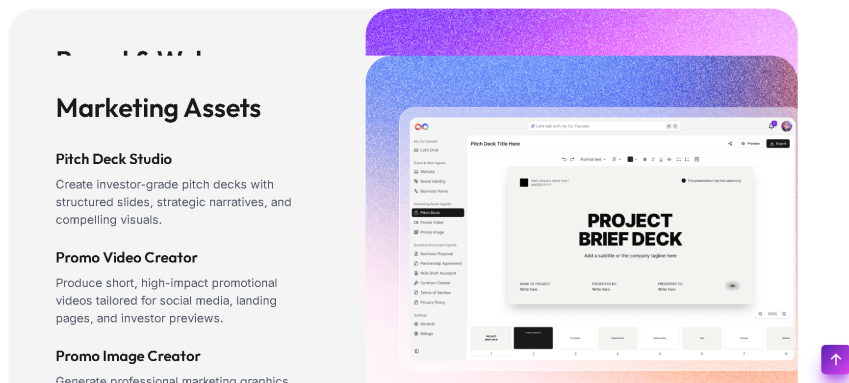


Figure 8.3: Create your marketing assets in a very short time period

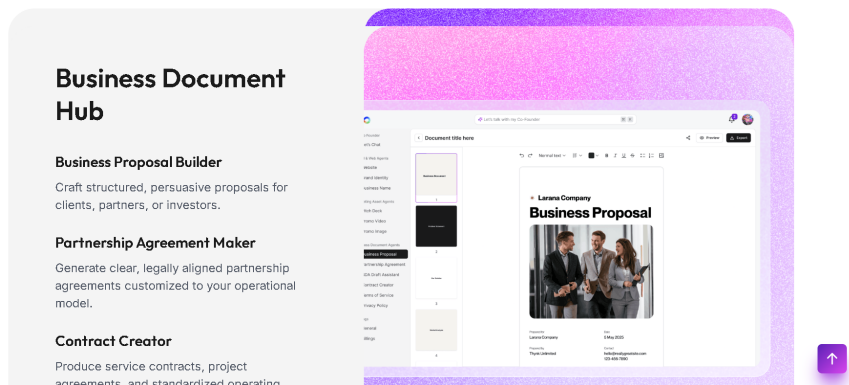


Figure 8.4: Get ready to execute your business within no time

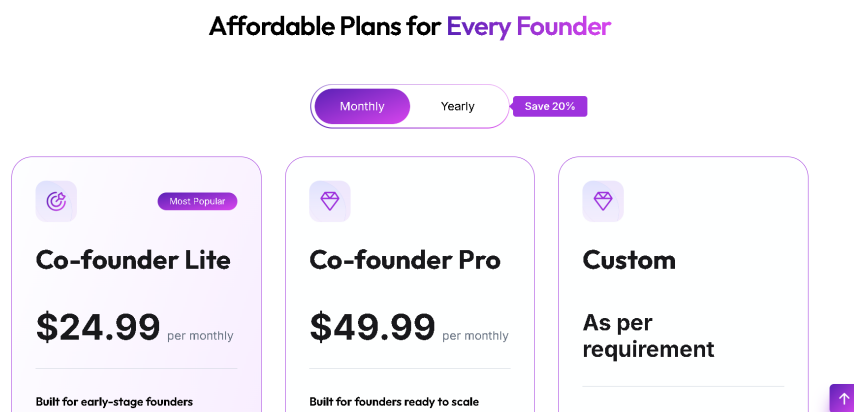


Figure 8.5: Get your full fledged business planned out in a very reasonable price



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Letter of Appointment

Subject: Appointment for Software Development Internship

Dear Taqi,

We are pleased to offer you an appointment as a Junior Software Developer Intern at Aaladin AI. This letter outlines the terms and conditions of your internship, which is scheduled to commence on **January 4, 2026**, and conclude on **April 17, 2026**.

At Aaladin AI, we value innovation and technical excellence. During your tenure, you will be integrated into our development team, where you will have the opportunity to apply your problem-solving skills to real-world software challenges and contribute to our ongoing projects.

Terms of Internship:

Position: Junior Software Developer Intern.

Duration: This is a fixed-term internship starting January 4, 2026, and ending April 17, 2026.

Supervision: You will report directly to Mr. Motiullah Sajit (Project Manager) and work under the general guidance of the management team.

Responsibilities: Your primary focus will include performing development activities, participating in code reviews, and assisting in the deployment of software modules.

Professional Conduct: As an intern, you are expected to maintain the highest standards of professional integrity, honesty, and industriousness, reflecting the values of our organization.

Confidentiality: During the course of your internship, you may gain access to proprietary information. You are required to maintain strict confidentiality regarding all internal processes and intellectual property.

We are excited to see the contributions you will make to the team and look forward to a productive internship period.

Please sign the duplicate copy of this letter to confirm your acceptance of this appointment.



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Sincerely,

Nazib Abrar Habib
General Manager
Aaladin AI

Acceptance:

I, **Kh. Taqi Tahmid Sudipta**, accept the internship appointment under the terms and conditions stated above.

Signature: _____ **Date:** _____

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