

Supportive Application

Group No: 02

CSH-4112: Group Project

Department of Physical Science

Faculty of Applied Science

University of Vavuniya

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ACKNOWLEDGEMENT

Here we gladly present this project report on “Supportive Application” as our activity in the system analysis design course. At this time of submitting this report, we use this opportunity to mention those people who were with us throughout the work.

We owe a great thanks to many people who helped and supported us during the designing and completing of our project as well as the writing of this report also.

We extend our sincere and heartfelt thanks to our esteemed guide, Mr. S. Selvendra for providing us with the right guidance and advice at crucial junctures and for showing us the right way by supporting us to complete each milestone of our project from the beginning to the end.

We would like to thank our friends for the support and encouragement they have given us during the course of our work toward success.

Thank You.

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1. Overview of the Project

A supportive application is an electronic application designed to provide support to users in some capacity. The goal of the project is to create an application that is easy to use and provides the necessary support for users. Our project involves creating a web-based application.

The project began with a comprehensive analysis of the user's needs. The analysis also included an assessment of the user's existing support networks and any gaps in those networks. After the analysis was complete, our team developed a plan for building the application. This included selecting the appropriate technology, designing the features and user interface, and developing the application.

The project typically involved a team of developers (Front end developers, Back-end developers), designers, etc. The responsibility of the developers was, to create the application and ensure that it meets the user's needs. The responsibility of designers was, to design the ER diagram, sequence diagram, class diagram, and architectural design and make an overview of the application, and ensure that the application is easy to use.

The product manager was responsible for providing feedback on the project and ensuring that it meets expectations and also communicating with the customer.

The project was broken down into a series of tasks, with each task assigned to a member of our team. These tasks should be tracked and managed to ensure that the project is completed on time and within budget.

The project included testing to ensure that the application works as expected. Testing included both manual and automated testing. Automated testing should include both unit and integration tests. Finally, the application is released to the public.

1.1. The goal of the Project

- To create an application that is easy to use and provides the necessary support for users.

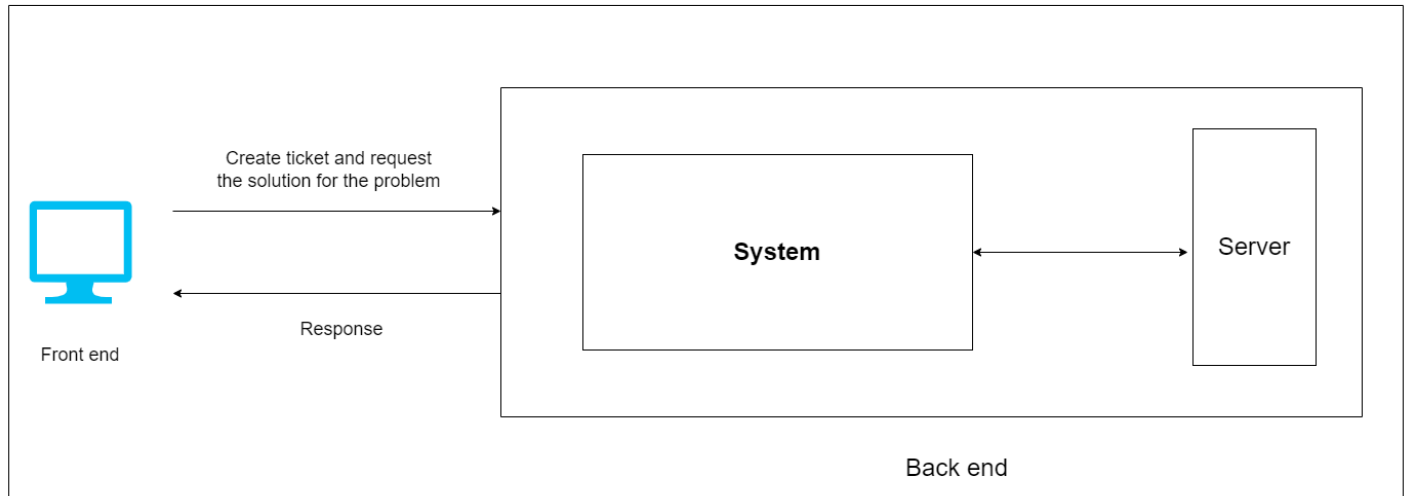
1.2. The objective of the Project

- Providing access to resources
- Helping users manage their tasks
- Creating an FAQ page
- Helping users find the information they need
- Connecting users to customer service agents
- Providing diagnostic feedback for troubleshooting technical issues
- Providing advice and guidance
- Helping users with decision-making
- Solving customer's problems or issues

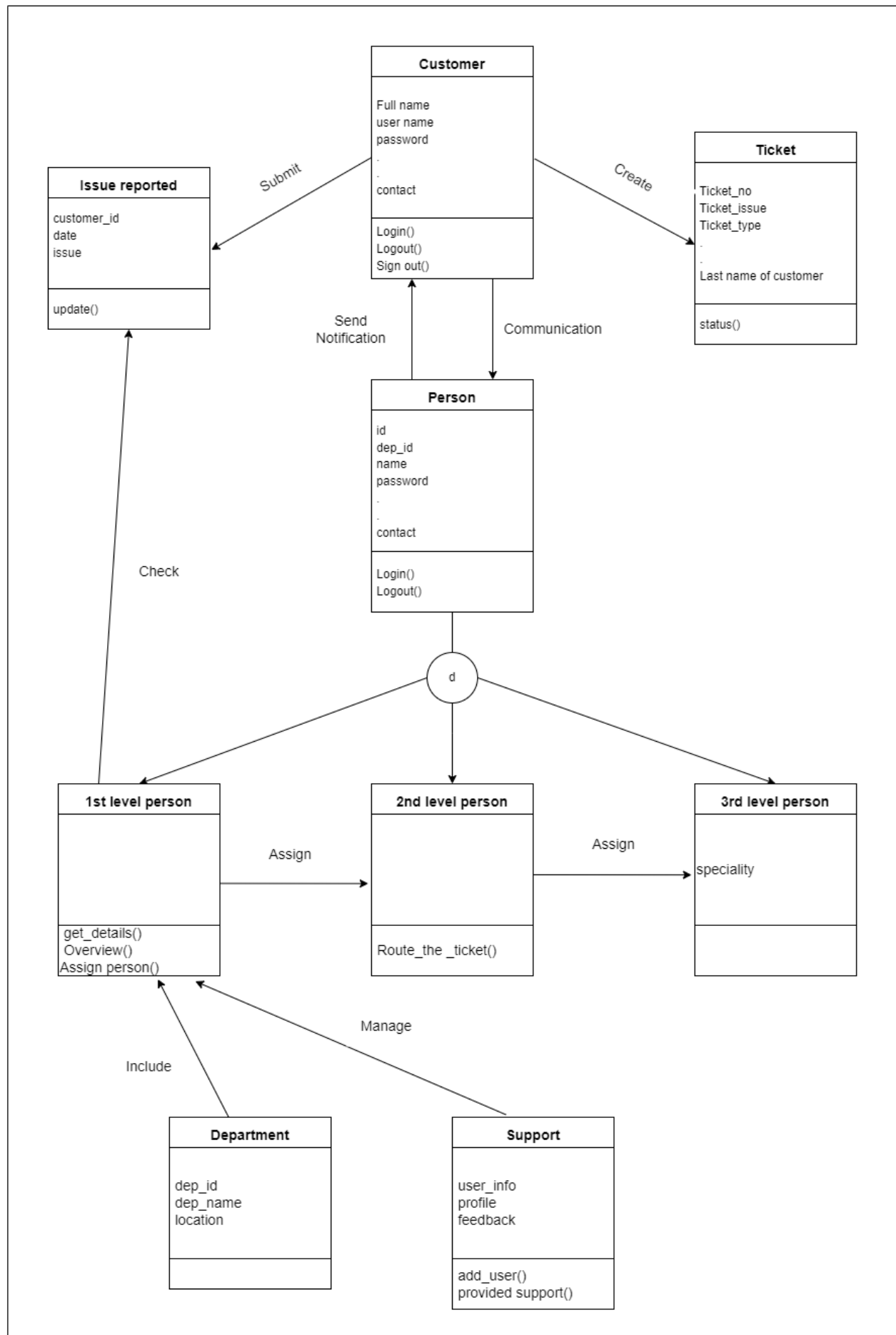
2. Design

2.1. Diagrams

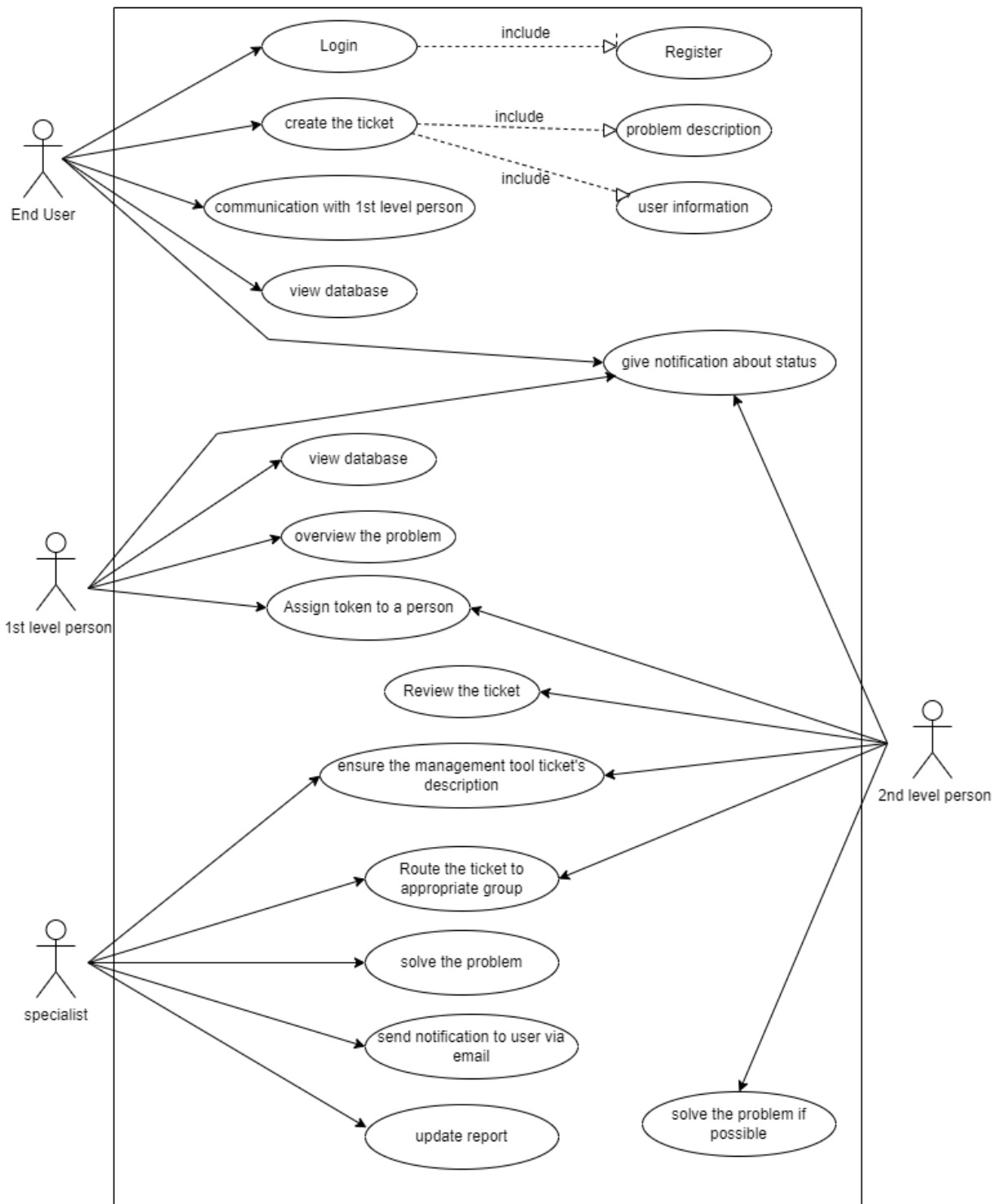
Architectural Design



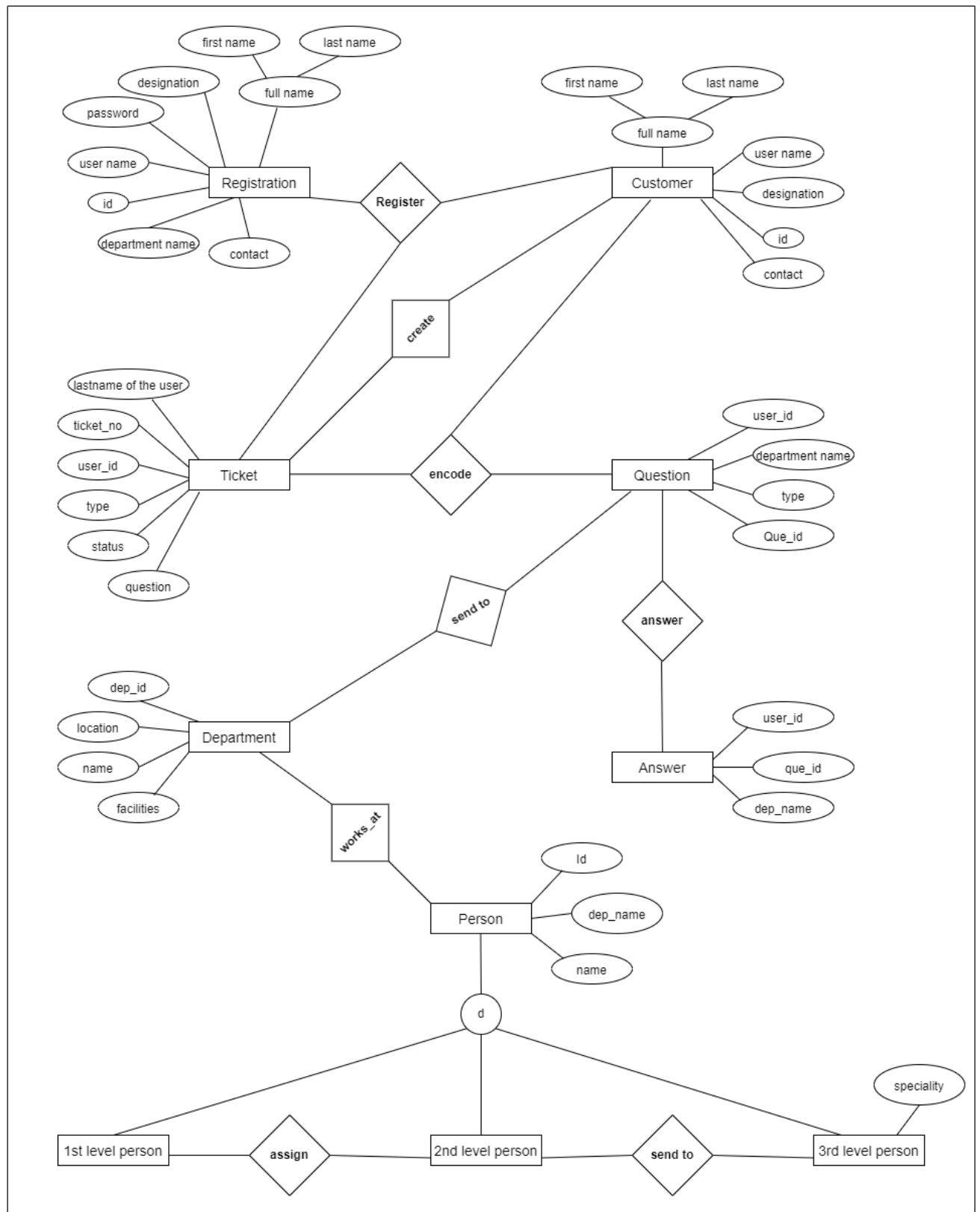
Class Diagram



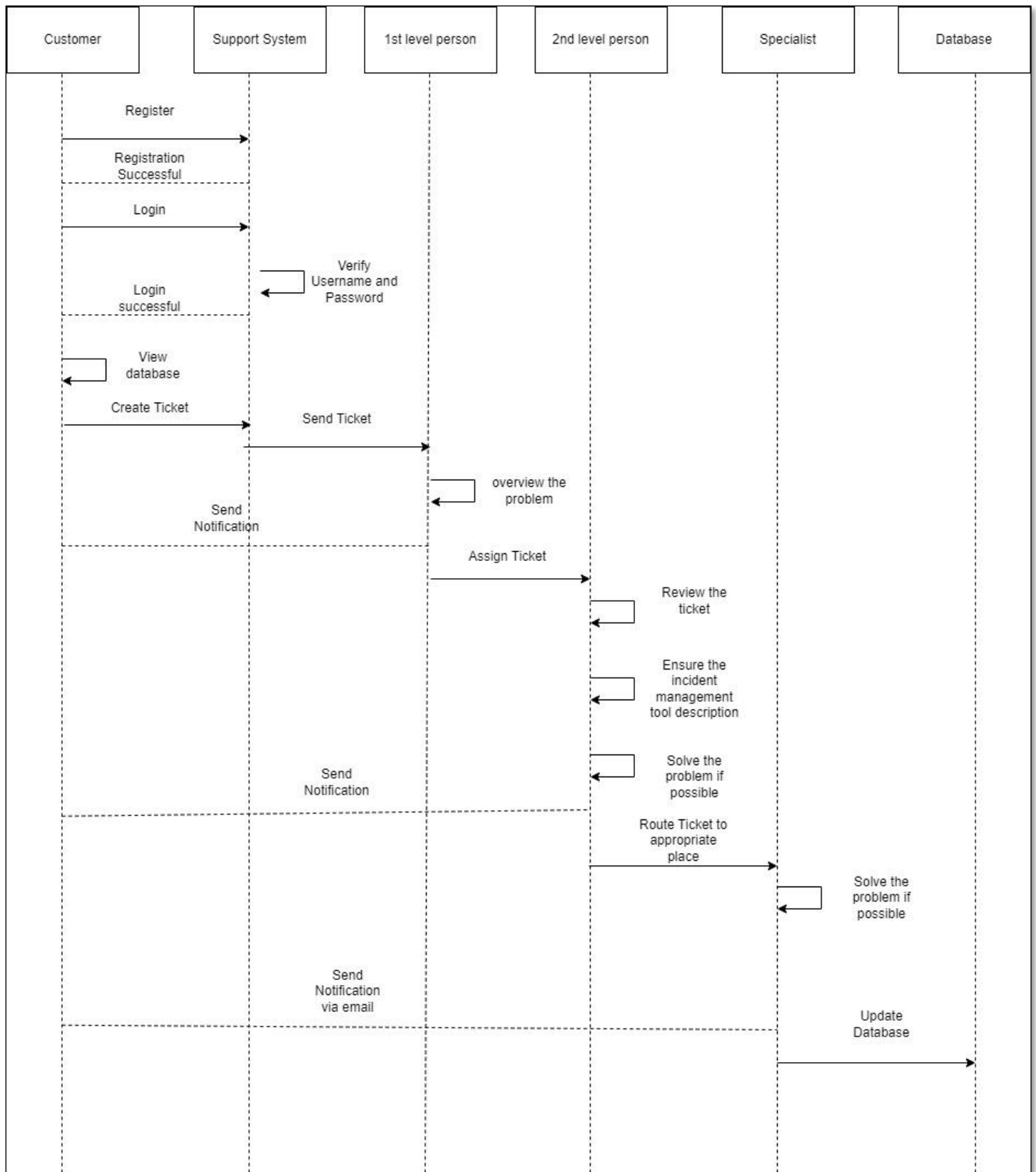
Usecase Diagram

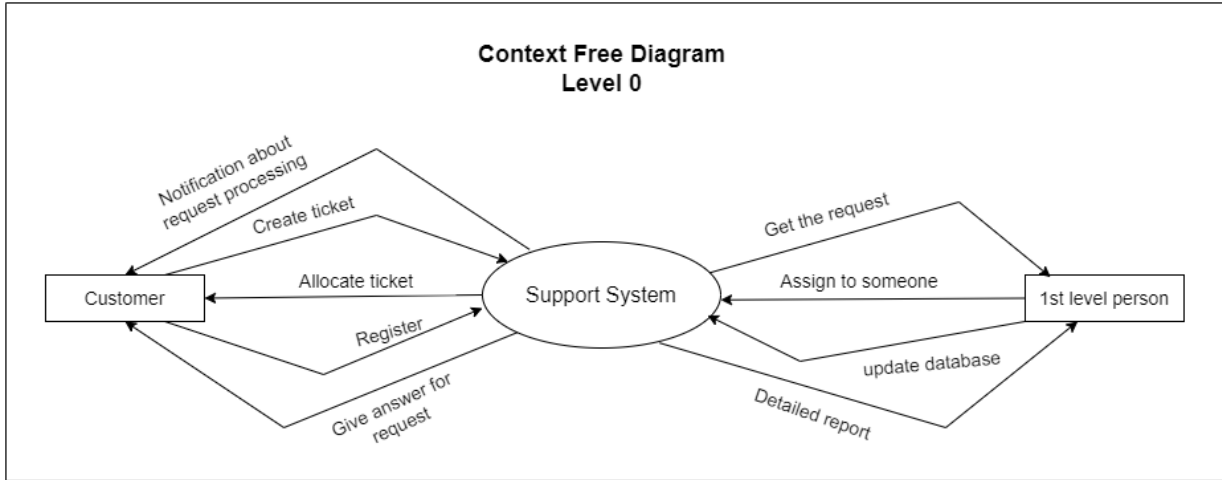


ER Diagram



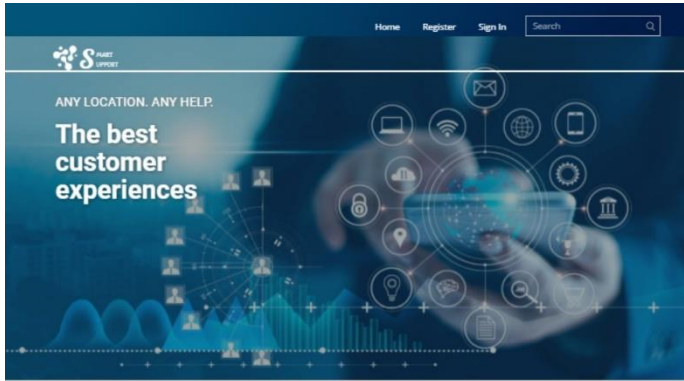
Sequence Diagram





2.2. User Interface Design

Home Page



Welcome To Our Website

We are a customer service-oriented company, dedicated to providing the highest quality of products and services to our customers. Our team of experts are available 24/7 to help you with any of your needs. With years of experience in the industry, our team is always up to date on the latest technology and trends to ensure your satisfaction. We understand that every customer has unique needs and we strive to meet those needs with our knowledgeable and friendly staff. No matter what your needs are, we are here to help. Thank you for choosing us as your service provider.

[LEARN MORE](#)



Our Story

Sample text. Click to select the text box. Click again or double click to start editing the text.



Our Mission

The mission of our support system is to provide our clients and customers with an efficient and reliable means of obtaining assistance and guidance with their individual needs.



Our vision

Comprehensive statement of what an organization or individual would like to achieve in the long term. It outlines objectives that need to be met in order to create a successful and sustainable system. It should include a clear action plan and the timeline for achieving those goals.

OUR SERVICES

Providing access to resources

Helping users manage their tasks

Creating an FAQ page

Solving customers' problems or issues

Providing advice and guidance

Helping users with decision-making

Helping users find the information they need

Connecting users to customer service agents

Providing diagnostic feedback for troubleshooting technical issues

Providing a platform for communication between users and service providers

Contact Us

Enter your Name

Enter a valid email address

Enter your message

Submit

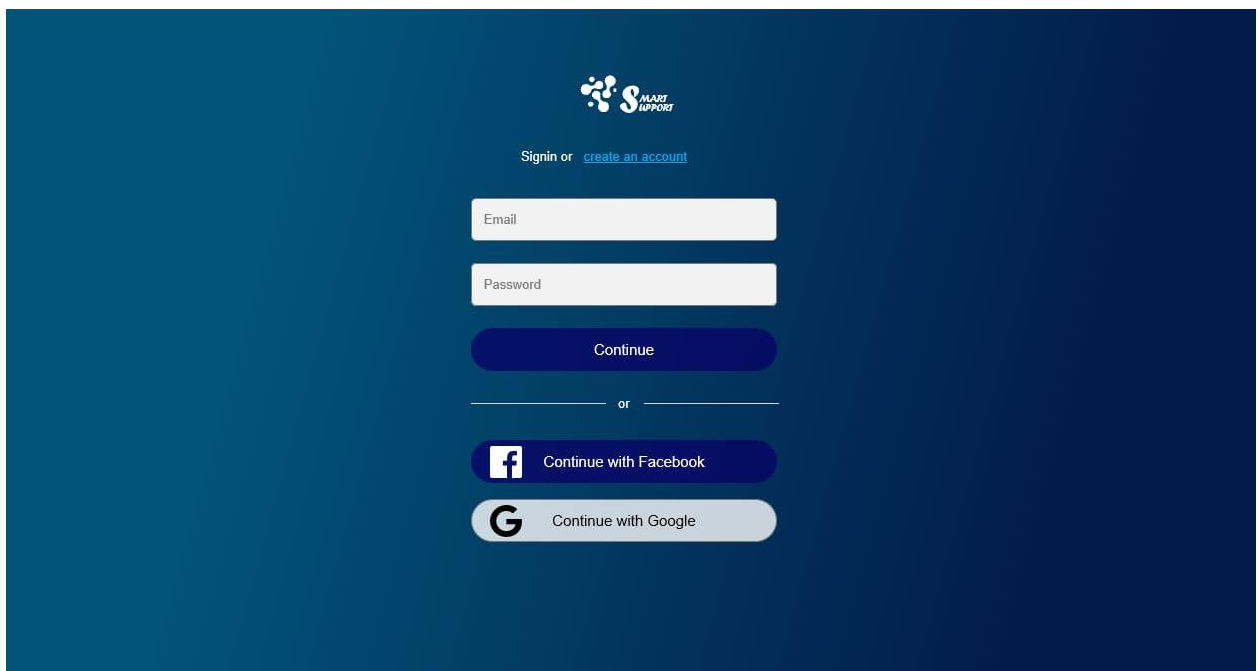
Follow Us



We are a customer service-oriented company, dedicated to providing the highest quality of products and services to our customers. Our team of experts are available 24/7 to help you with any of your needs.

[BUTTON](#)

Sign Up/Login



SMART SUPPORT


Signin or [create an account](#)


Email

Password

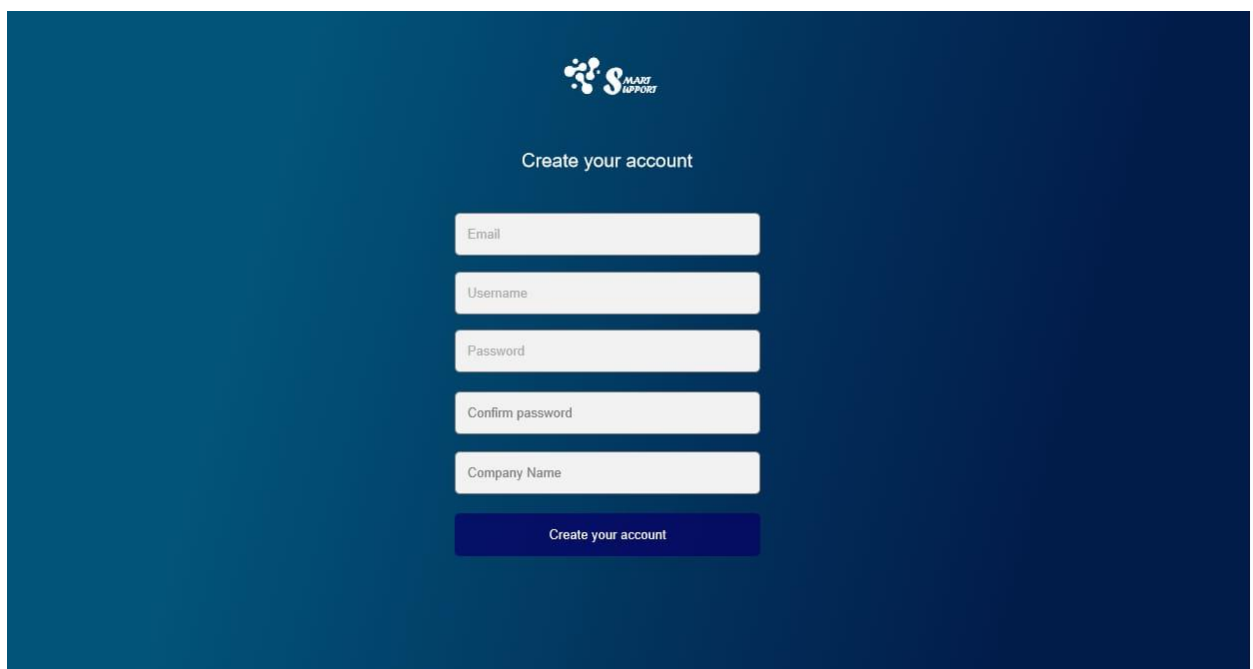
Continue

or

 Continue with Facebook

 Continue with Google

Create Account



SMART SUPPORT

Create your account

Email

Username


Password

Confirm password

Company Name

Create your account




Create Ticket



New ticket

+ ADD

Conversation 0



Chat Now

New

Requester


Type

Priority

Subject




Add Text

Database



+ ADD

Conversation 0



Chat Now

Get Started

Dashboard

Update Your Tickets

Open Tickets

2 You0 Groups

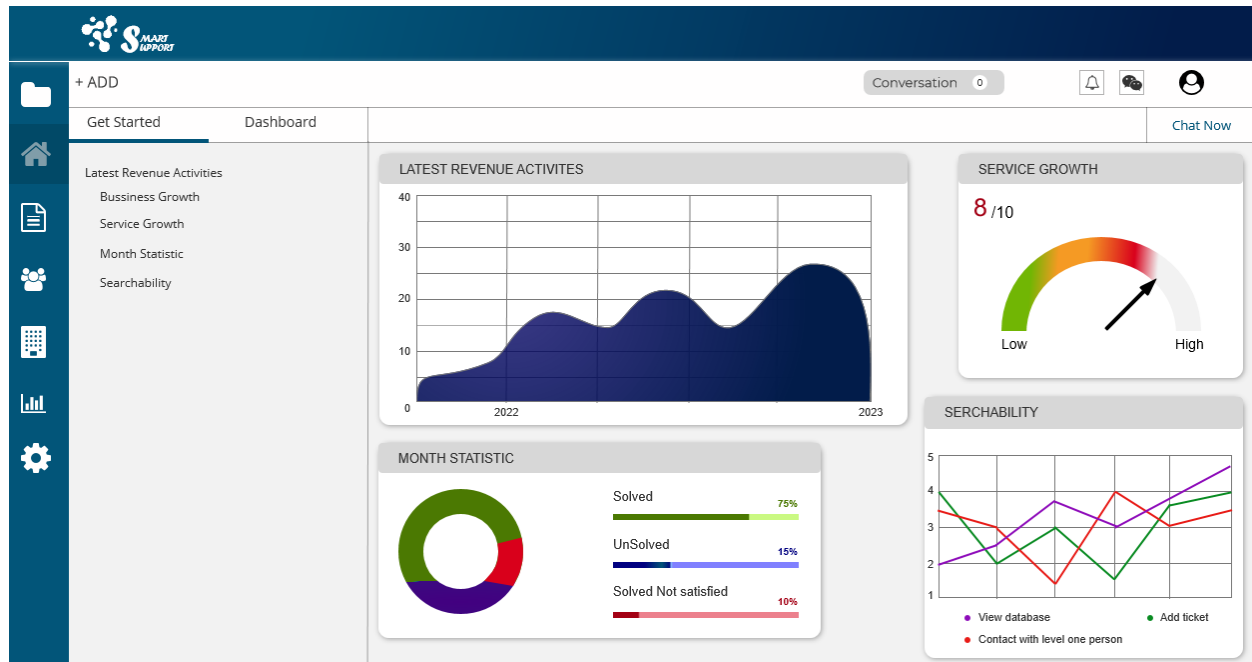
Tickets Statistics

2 Good0 Bad1 Solved

Tickets open and assigned to you

<input type="checkbox"/>	ID	Subject	Requester	Requested	Updated	Department
<input type="checkbox"/>	#1	xxxxxxxxxxxx	sam	Today, 08:22	Today, 09:10	Dep 01
<input type="checkbox"/>	#2	xxxxxxxxxxxx	mala	01 Jan 2023, 07:14	02 Jan 2023, 15:12	Dep 01

Annual Reports



Customer Details

The 'Customer Details' section features a dark blue header with the 'MAKS SUPPORT' logo. A sidebar on the left contains icons for home, documents, users, calendar, bar chart, and settings. The main content area is divided into two sections: 'Customers' with a search bar and a table of customer details, and 'Chat Now'.

Customers

Search

4 cstomer

Name	Email	Subject	Department	Last Update	Type
aaaaaaa	aaaaaaa@gmail.com	xxxxxxxxxxx	Dep 1	today, 8.22	Important
bbbbbb	bbb@gmail.com	xxxxxxxxxxx	Dep 4	28 Dec 2022,18.02	Important
ccccccc	cccc@gmail.com	xxxxxxxxxxx	Dep 2	2 Nov 2022, 10.10	Normal
aaaaaaa	ddd@gmail.com	xxxxxxxxxxx	Dep 6	1 Jan 2023, 11.30	Important

Ticket Details

+ ADD
Conversation 0

Views
2

Chat Now

Your unsolved tickets
2

Unassigned tickets
0

All unsolved tickets
2

Recently updated tickets
0

Recently updated tickets
2

Pending tickets
0

Recently solved tickets
2

Suspended tickets
0

Deleted tickets
0

Pending Tickets

Tickets open and assigned to you

<input type="checkbox"/>	ID	Subject	Requester	Mail Id	Assign	Type
<input type="checkbox"/>	#1	xxxxxxxxxxxxxxxx	sam	xxxxxx@gmail.com	Level 1	important
<input type="checkbox"/>	#2	xxxxxxxxxxxxxxxx	mala	xxxxx@outlook.com	Level 2	Normal

+ ADD
Conversation 0

Views
2

Chat Now

Your unsolved tickets
2

Unassigned tickets
0

All unsolved tickets
2

Recently updated tickets
0

Recently updated tickets
2

Pending tickets
0

Recently solved tickets
2

Suspended tickets
0

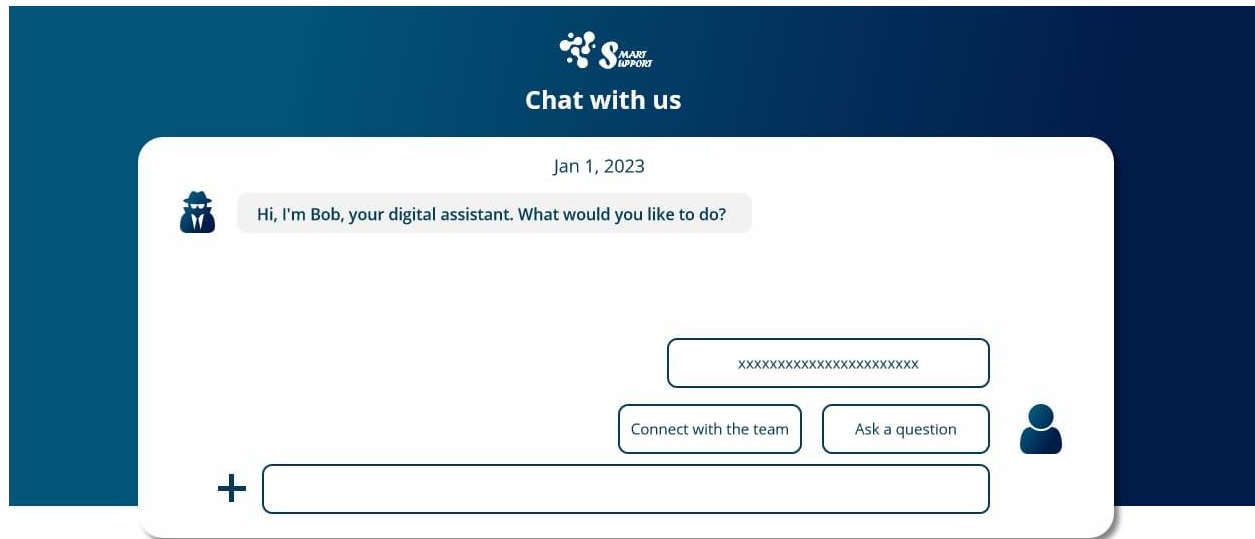
Deleted tickets
0

Your unsolved tickets

Tickets open and assigned to you

<input type="checkbox"/>	ID	Subject	Requester	Mail Id	Requester	Type
<input type="checkbox"/>	#1	xxxxxxxxxxxxxxxx	sam	xxxxxx@gmail.com	Today, 09.10	important
<input type="checkbox"/>	#2	xxxxxxxxxxxxxxxx	mala	xxxxx@outlook.com	02 Jan 2023,15.12	Normal

Chatbox



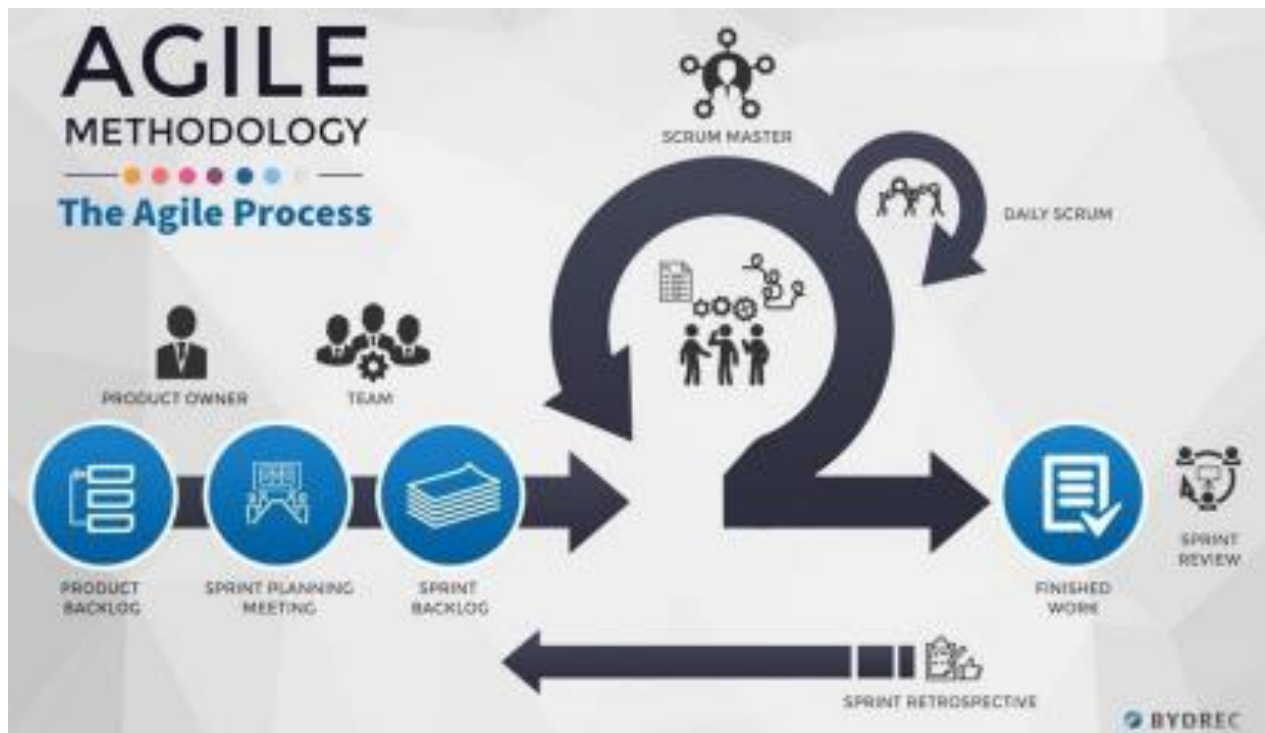
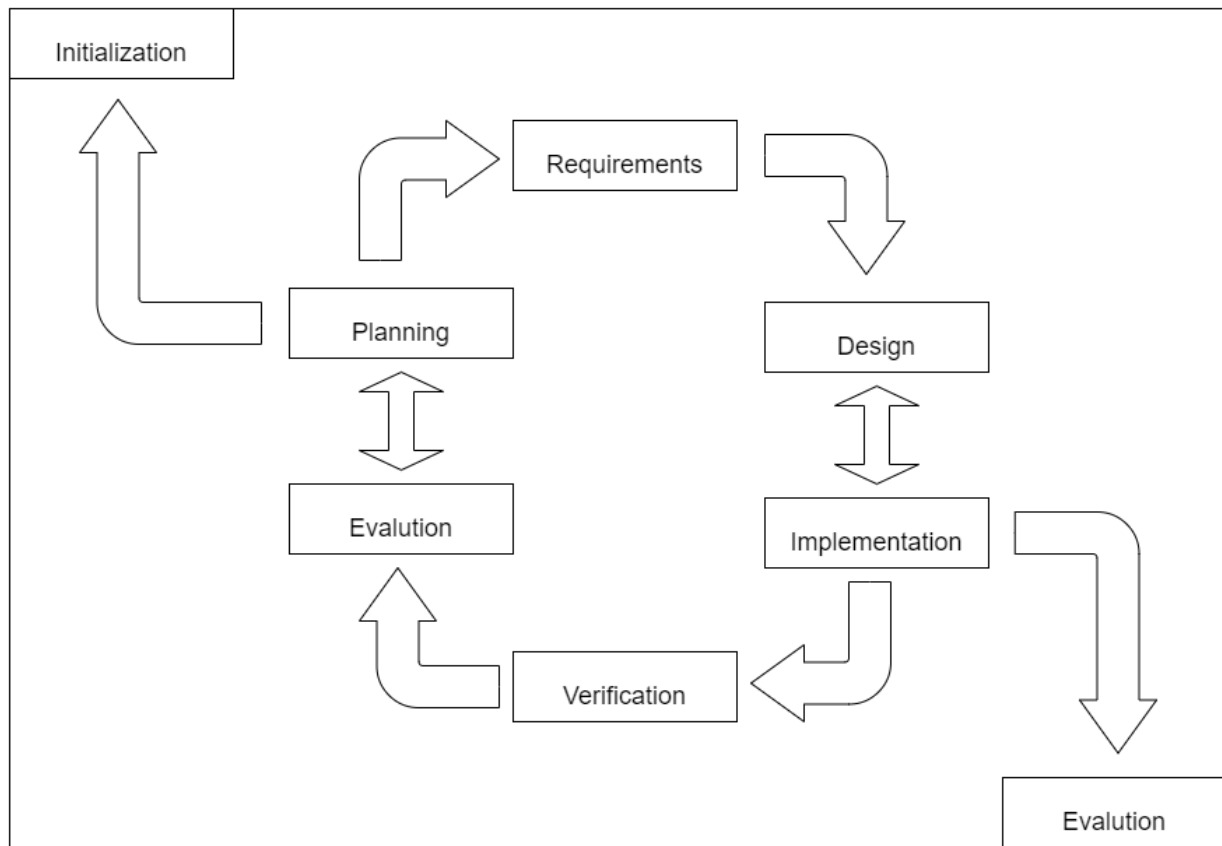
3. Methodology

We used the **Agile development model** to fulfill our project. Agile Process Model is an iterative and incremental approach to software development that is used in software engineering. It is an adaptive, lightweight, and flexible process model which focuses on customer satisfaction through early and continuous deliveries of valuable software. The Agile Process Model emphasizes on collaboration between self-organizing and cross-functional teams to deliver the highest value to the customers. It is based on the values and principles of the Agile Manifesto which includes customer satisfaction, individuals and interactions, working software, responding to change, etc. The Agile Process Model is designed to respond to changing customer needs and requirements. It encourages the teams to inspect and adapt the process based on the user's feedback. This helps in reducing the risk of delivering the wrong product and ensures that the customer gets the product that meets their needs.

Agile methods break tasks into smaller iterations or parts that do not directly involve long-term planning. The project scope and requirements are laid down at the beginning of the development process. Plans regarding the number of iterations, the duration, and the scope of each iteration are clearly defined in advance.

Each iteration is considered as a short time "frame" in the Agile process model, which typically lasts from one to four weeks. The division of the entire project into smaller parts helps to minimize the project risk and to reduce the overall project delivery time requirements.

The iterative and incremental method consists of 8 phases namely planning, requirements, analysis and design, implementation, deployment, testing, evaluation, and initial planning.



3.1. Justification for the chosen Methodology

- Agile process model helps to deliver the software faster and with more accuracy, leading to increased customer satisfaction.
- Agile process model brings together the customer, the development team, and the stakeholders in a collaborative environment to ensure everyone is on the same page.
- Agile process model allows for changes to be made quickly and easily during the development process, which makes it more flexible and adaptive.
- Agile process model provides visibility into the development process, allowing all stakeholders to monitor progress and provide feedback.
- Agile process model encourages continuous testing and feedback, which helps to ensure high-quality software.
- Agile process model helps to save costs by reducing waste and improving efficiency.
- Agile process model allows for faster development cycles, leading to faster delivery of the software.

4. Software Tool Used

1. Front End

- Html
- Java Script
- CSS

2. Back End

- PHP

3. Database

- My SQL

5. Requirements

5.1. Functional Requirements

- Ability to create and manage user profiles.
- Ability to provide tailored content and resources to users.
- Ability to facilitate communication between user and 1st level person.
- Ability to integrate with third-party services.
- Ability to provide personalized notifications to users.
- The application must be able to authenticate and authorize users.
- The application must be able to access and store data in a database.
- The application must be able to generate reports.
- The application must be secure and must protect user data.
- The application must be able to be used on mobile devices.
- The application must provide reporting capabilities to allow users to view statistics, trends and insights.
- The application must provide a ticket management system which allows customer to create tickets
- The application must provide an easy-to-use interface which is accessible to users of all skill levels.
- Ability to create and manage user accounts
- Ability to provide personalized recommendations and content

5.2. Non-Functional Requirements

- The application must be available and accessible to users at all times.
- The application must be secure, protecting data from unauthorized access or modification.
- The application must provide a fast and reliable user experience.
- The application must be easy to use and understand.
- The application must be maintainable over time, with the capability to add new features and make changes with minimal disruption
- The application should be able to handle large volumes of data efficiently, with minimal latency and high throughput.
- The cost of the application should be within the budget of the organization.
- The application should be able to store large amounts of data.
- The application should have an effective backup and recovery system in place.
- The application should have a well-defined maintenance plan to ensure smooth functioning.

6. Testing

The project included testing to ensure that the application works as expected. Testing included both manual and automated testing. Automated testing should include both unit and integration tests.

As part of testing, we execute the program with the intent of finding errors and missing operations and also a complete verification to determine whether the objectives are met and the user requirements are satisfied. The ultimate aim is quality assurance. Tests are carried out and the results are compared with the expected document. In the case of erroneous results, debugging is done. Using detailed testing strategies, a test plan is carried out on each module. The various tests performed are unit testing, integration testing, and user acceptance testing.

7. Conclusion

The development of this supportive application marks the successful completion of the project. With the help of this application, we have been able to provide an effective and efficient support system to our customers in order to improve their experience with our products and services. The application is easy to use and provides several useful features such as automated ticketing, customer support chat, FAQs, and analytics. The development of this application has helped us to address customer inquiries more quickly and effectively. It has also enabled us to keep track of customer queries and use the data to improve our products and services. We are confident that the application will continue to be a valuable asset for our organization in the future. We are sure that the application will help us to provide better customer service and improve customer satisfaction.

8. Reference

- <https://www.camcode.com/blog/best-work-order-management-software-systems/>