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Chapter 1

Introduction

1.1 Document Purpose

The introduction of Software Requirement Specifications (SRS) offers an outline of entire SRS. It is a comprehensive description of the supposed reason and surroundings for software under development. The SRS absolutely describes what the software program will do and the way it will be anticipated to carry out. It defines how an utility will engage with system hardware, different programs and human users in a wide kind of real-world conditions. The major awareness of this record is to get insight know-how of THE ONLY WAY website.

1.2 Product Scope

The Only Way website has a huge scope. The internet site will provide an authenticated login/ register to the user. The website is accommodates of different pages associated with Islam. The person can read and search Quranic Verses and Ahadith concerning to day by day life subjects and situations. Also he can study diverse blogs related to Islam which can be displayed on the wall of our internet site. There is likewise every day quiz characteristic supplied in order that a person can test his fundamental know-how approximately about Islam. An e-store will also be there catering to the purchase of Quranic copies, tasbeeh, canvas frame, miswak and etc.

1.3 Intended Audience and Document Overview

The idea to create this website is that it can hopefully be used by many, someone in your teens or 50's, Muslim or non-Muslim, I hope that this resource benefits for generations to come. I hope it is something can be share with your friends and children so they can learn quick and interesting facts and develop a rich way of considering Islam. The rest of the SRS is prepared as follows:

- Chapter 1 is just about the introduction, and discussion about purpose, scope, target audience, definitions, acronyms and abbreviations.
- Chapter 2 gives you an overview description of the software. It gives the proficiency level to be expected of the user, some general constraints, assumptions and dependencies that are presumed while making the software. It also gives a basis to establish the technical requirements in the next chapter.
- Chapter 3 contains most important features presented with detailed description, and requirements. It gives the specific requirements which the software is expected to deliver. A Functional Requirements are given in this section along with External Interface Requirements. A User Case Diagram is also illustrated to give a clear idea of the software to be developed.
- Chapter 4 specifies the Non-Functional Requirements. Performance, Safety and Security requirements are also specified. In addition, Software Quality Attributes have been discussed in detailed.

1.4 Definitions, Acronyms and Abbreviations

- **HTML**- (Hypertext Markup Language) is the code that is used to structure a web page and its content.
- **CSS**- (Cascading Style Sheets) use to style an HTML document.
- **MySQL** - It is a relational database management system based on SQL (Structured Query Language).
- **Bootstrap**- It is a free front-end framework for faster and easier web development.

- **Django**- Django is an extremely popular and fully featured server-side web framework, written in Python.
- **VSCode**- Visual Studio Code is a code editor redefined and optimized for building and debugging modern web and cloud applications.

1.5 Document Conventions

This SRS has been prepared using the LATEX software which is a document preparation system. Both LATEX and TEX contain a variety of font styles, such as serif, typewriter, and a set of mathematical functions. It is an open-source and powerful document preparation system. It is high-quality typesetting, which can be used for any publishing.

1.6 References and Acknowledgment

- IEEE. IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications. IEEE Computer Society, 1998.
- Braude: The principle source of textbook material is "Software Engineering: An Object-Oriented Perspective" by Eric J. Bruade (Wiley, 2001).

Chapter 2

Overall Description

2.1 Product Perspective

Our website falls under the umbrella of diverse category of Islamic Web-Sites; possessing the distinctive features like searching of specific Quranic Verses and Ahadith based on feelings, emotions and popular life events. One can also read authentic blogs and articles pertaining to a variety of interesting topics.

Other feature includes testing your basic Islamic knowledge by attempting a daily quiz. A small e-commerce store has also been setup to aid the purchase of Islam-related articles.

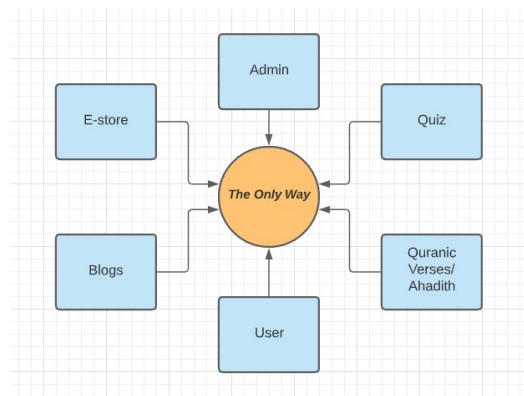


Figure 2.1: Context diagram

2.2 Product Functionality

A brief description of the functionalities present in our website has been listed down below.

- A common user will be able to register himself/herself which will allow him/her to make purchases from our platform.
- Selection of Quranic Verses based on topic/feelings along with translation.
- Selection of Ahadith based on specific topic/feelings along with translation.
- Searching of article/blogs covering the common and popular aspects of Islam.
- Increasing general Islamic knowledge by taking daily quiz.
- Visiting our e-commerce store.
- Buying article(s) and proceeding to checkout to make payments.

2.3 Users and Characteristics

2.3.1 Administrator:

These people will be responsible for keeping the website up to date which may include regular posting of blogs and quiz questions. Bugs fixation should be done by them on a need-to-do basis.

2.3.2 Muslims - over 14 years of age:

They are the main users of this product. Age limit has been specified so that the user can appreciate the usefulness of this website and take the most from it. Surfing on this site will surely give them a sigh of relief and a sense of inner peace provided that they come here with utter consciousness and possess a bare level mental capability.

2.3.3 Non-Muslims:

They are not the targeted audience as the content on this website are designed to meet the needs of Muslims. But that doesn't mean they will find it of no use. Maybe some blogs/articles can catch their attention and provide some clue to what they were looking for.

2.4 Operating Environment

There is no external hardware requirements for this product. A PC/Laptop (with processor core 2 duo or above, min 4GB RAM and 40GB Hard disk) with a browser along with stable internet connection would suffice in the proper functioning of this website.

2.5 Design and Implementation Constraints

Hardware Constraint

Hardware limitation of this software product can be the unavailability of Laptop or PC. Without these gadgets the end-user can not use the website.

Internet Constraint

The website needs to be permanently connected with the Internet, otherwise the system would be futile.

Browser Constraint

Browser must be installed for working of the website. The user must have browser on his system such as Google chrome, Mozilla firefox and Microsoft edge.

Input Device Constraint

A mouse and keyboard are necessary to interact with the web application.

Language Constraint

2.6 User Documentation

As it is a basic website, so only fundamental browser expertise is required along with a way to open browser, check in/login and know-how of how to shop online. The User Interface is quite interactive and user-pleasant for the users.

2.7 Assumptions and Dependencies

2.7.1 Assumptions:

Major Assumptions are:

- Laptop, PC, Tablet and Mobile telephones ought to have web browser and internet connection.
- A user must have the primary knowledge of a way to run the internet site.

2.7.2 Dependencies:

The website is fairly dependent on availability of Internet connection in order to access website.

Chapter 3

Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

1) Home Page

Probably the home page of our site will look like this. The 5 widgets (as shown in figure 3.1) in yellow box will redirect user to the available sections namely Blogs reading, buying articles and other stuff, hadith/Quranic verse portion and daily quiz site. Registration /login functionality is provided at bottom of home page (User registration to our site is mandatory before checkout from Islamoshop other than that registration is optional). The search bar provided at center is for searching blogs, if the searched article is present at our site user will be redirected to a new page where he/she can read that blog.

2) Blog Page

As the prototype in figure 3.2 depicts, some recently added blogs will be present on this page but user can search for a blog of his choice through search bar.

3) Quiz Page

This portion (Figure 3.3) will display 10 random questions fetched from database related to Islamic knowledge, so that users can test their knowledge, appreciation will be given on completion but score won't be saved in database.

4) Hadith And Quranic Verses page

This template (Figure 3.4) will be available at 2 pages one will display quranic verses with translation and other Ahadith.

5) Islamoshop

To buy stuff from Islamoshop user first need to register to our site then he/she can add stuff to cart and will be proceeded to checkout, that will be dummy payment (refer to figure 3.5).

3.1.2 Admin Interface

Admin Interface will also be available from where admin member will write blogs, quiz questions and hadith writing etc. and then storing them in database.

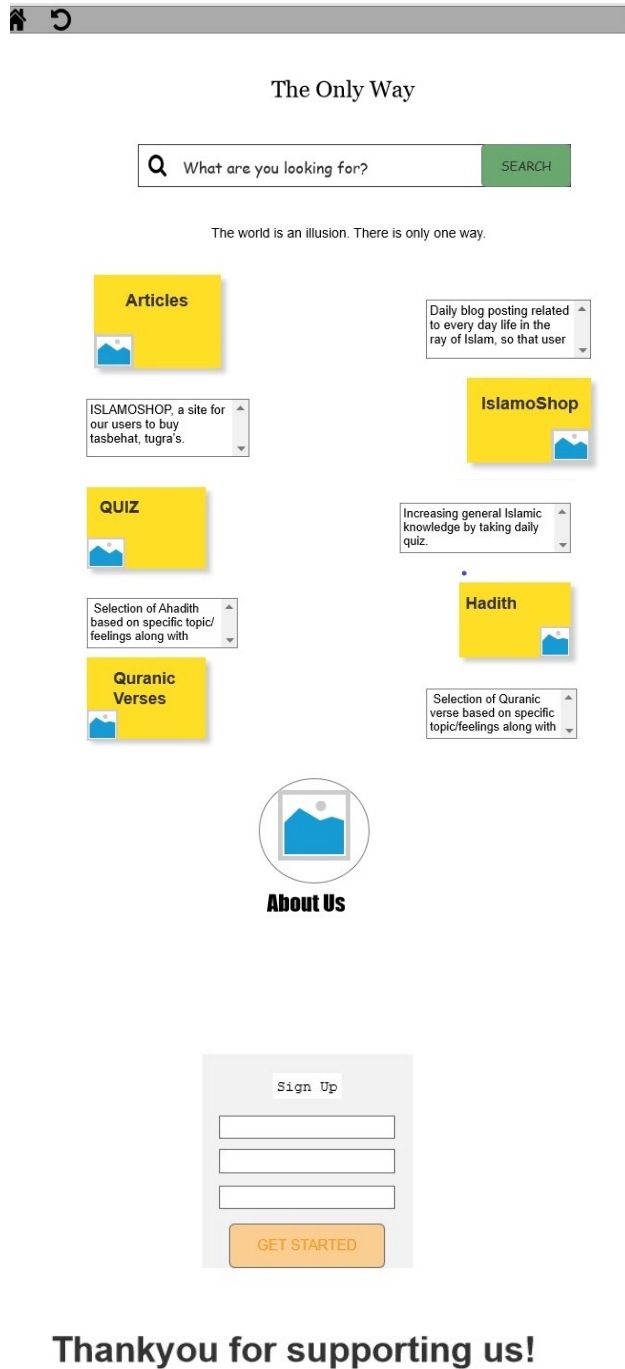


Figure 3.1: Home Page

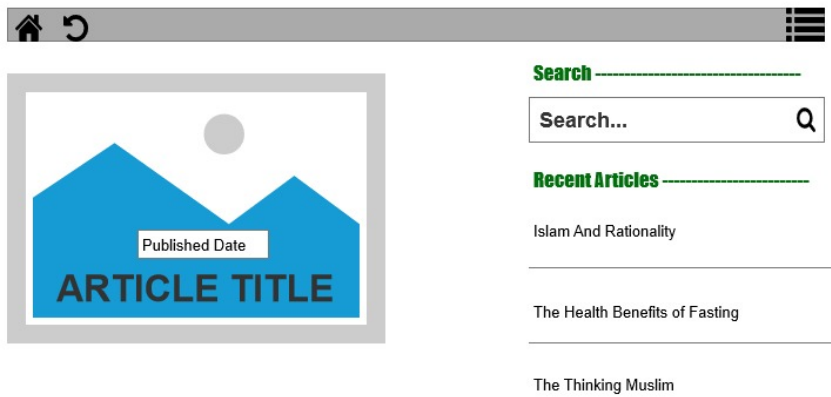


Figure 3.2: Blog Page

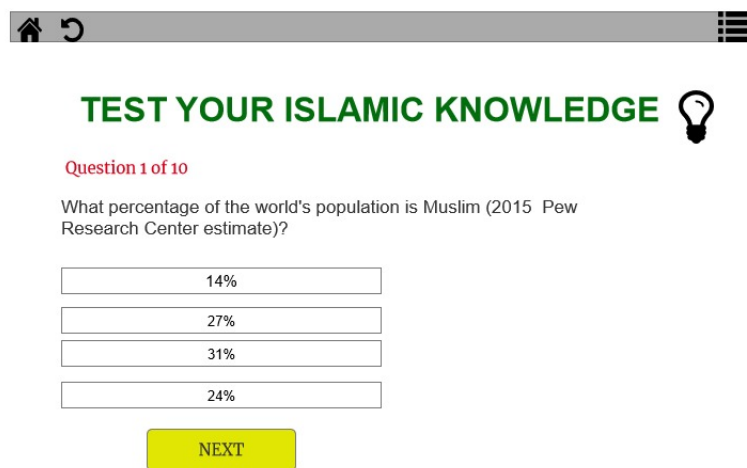


Figure 3.3: Quiz Page

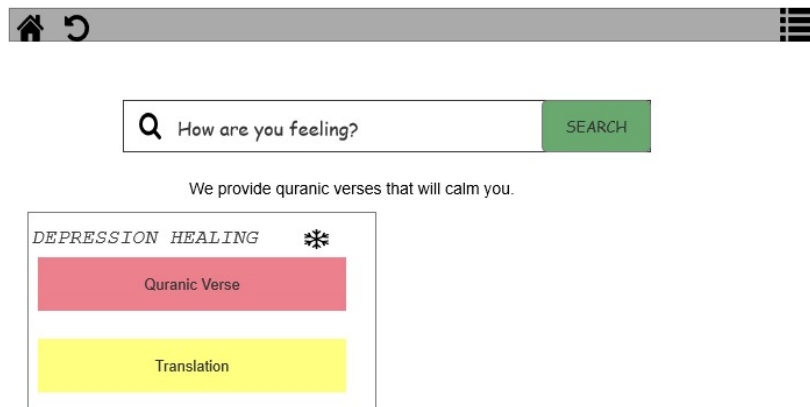


Figure 3.4: Hadith And Quranic Verses Page

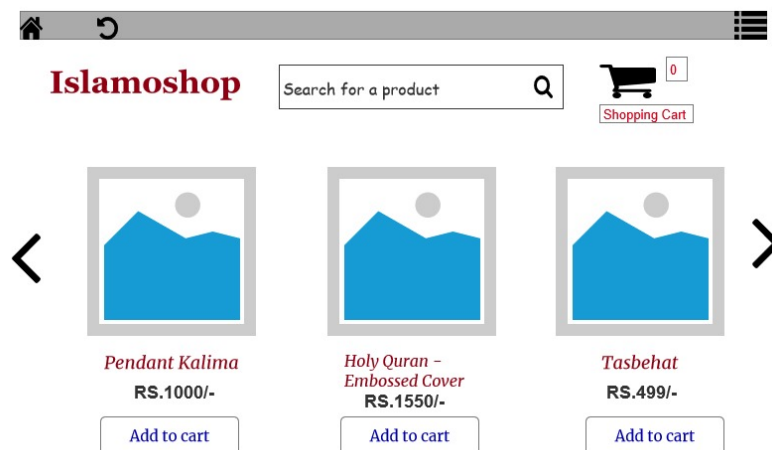


Figure 3.5: Islamoshop

3.1.3 Hardware Interfaces

There are no hardware interfaces is required. As the Only Way is an Online Web application only a PC/Laptop (with processor core 2 duo or above, min 4GB RAM and 40GB Hard disk) with a browser along with stable internet connection would be suffice.

3.1.4 Software Interfaces

- Our webpage can run on every Operating system and smart phone if they have web browser.
- For database Server, we use MySQL Workbench.

3.1.5 Communications Interfaces

The Only Way is an online website so the user needs a web browser and thus an internet connection for availing the service and communicating over the network. It also have electronic form service. Furthermore, it follows HTTP communication Standard.

3.2 Functional Requirements

3.2.1 Home Page

This page contains the overview of all the contents present on our website. At the top left we have included our logo of "Dove" which symbolizes peace; the true meaning of Islam.

At the top center, a search bar is present which will allow the user to search for articles using specific words and/or phrases.

Upon scrolling down the page, the user will see sliders arranged systematically to left and right. These sliders will contain a brief description of where the user will be redirected to if he/she clicks on them; the details of which is given the subsequent sub-sections.

At the bottom of this page, a sign-up form is also available which will help the user to use specific features of our website.

3.2.2 Quranic Verses

On this page, the user will search for Quranic Verses relating to day-to-day events and/or feelings. The Arabic along with English translation will be presented to the user.

3.2.3 Ahadith

The functionality of this page is exactly same as that of Quranic Verses but lies in the context of Ahadith.

3.2.4 Blogs

A wide variety of authentic articles and blogs will be available on this page. The topics will include the basic teachings of Islam, most frequently asked questions about Islam, current picture of our world in light of this religion etc.

3.2.5 Test Your Knowledge

A set of ten questions will be uploaded daily on this page which will help the user to refresh his/her Islamic knowledge. Scores will be displayed at the end to keep the user motivated for the next attempt.

3.2.6 Islamoshop

If the user is registered, then he/she can make purchases of variety of Islamic articles at a reasonable price. At the checkout, both online payment or cash-on-delivery options will be available.

3.3 Behaviour Requirements

3.3.1 User Case View

- **Actors:** There are two actors in our website.
 - *i) Admin-* Admin will manage users, write and update blogs, quiz questions and ahadith writing etc. and then storing them in database.
 - *ii) User-* They are the one who registered to our website and can use our services such as reading blogs, quranic verses and ahadith, test their knowledge by attempting quiz and purchase stuff from Islamoshop.
- **Main Page Use Case:** The user access our Islamic website using this page and they also register and navigate to other pages through buttons on this page. This use case extends into five more use cases including ahadith, quranic verses, quiz, islamoshop and blogs.

- **Blogs Use Case:** Blog use case is extended into three more use cases which include read blogs, search blogs and write blogs.
- **Islamoshop Use Case:** Islamoshop use case is extended to Payments use case which include Check out use case which is link to Database use case. For using Islamoshop, user must login to the site as shown is use case diagram.
- **Quiz Use Case:** Quiz use case is used by the user to test his/her knowledge about Islam. This use case is extended to add questions use case i.e. admin will add questions on daily basis and store it in database (i.e update database usecase)
- **Maintenance Use Case:** This use case is further extended to Manage account and Update database that are tasks for admin.
- **Update database Use Case:** This use case is the extension of maintenance use case which is managed by admin. Update database includes write blogs use case as the blogs are written by admin and store it in database. Also it includes checkout use case which update the store database after the transaction done by the user after purchasing stuff from Islamoshop.
- **Manage Accounts Use Case:** Manage accounts use case is managed by the admin (i.e extension of maintenance use case). It includes the information about the users who registered to our site.

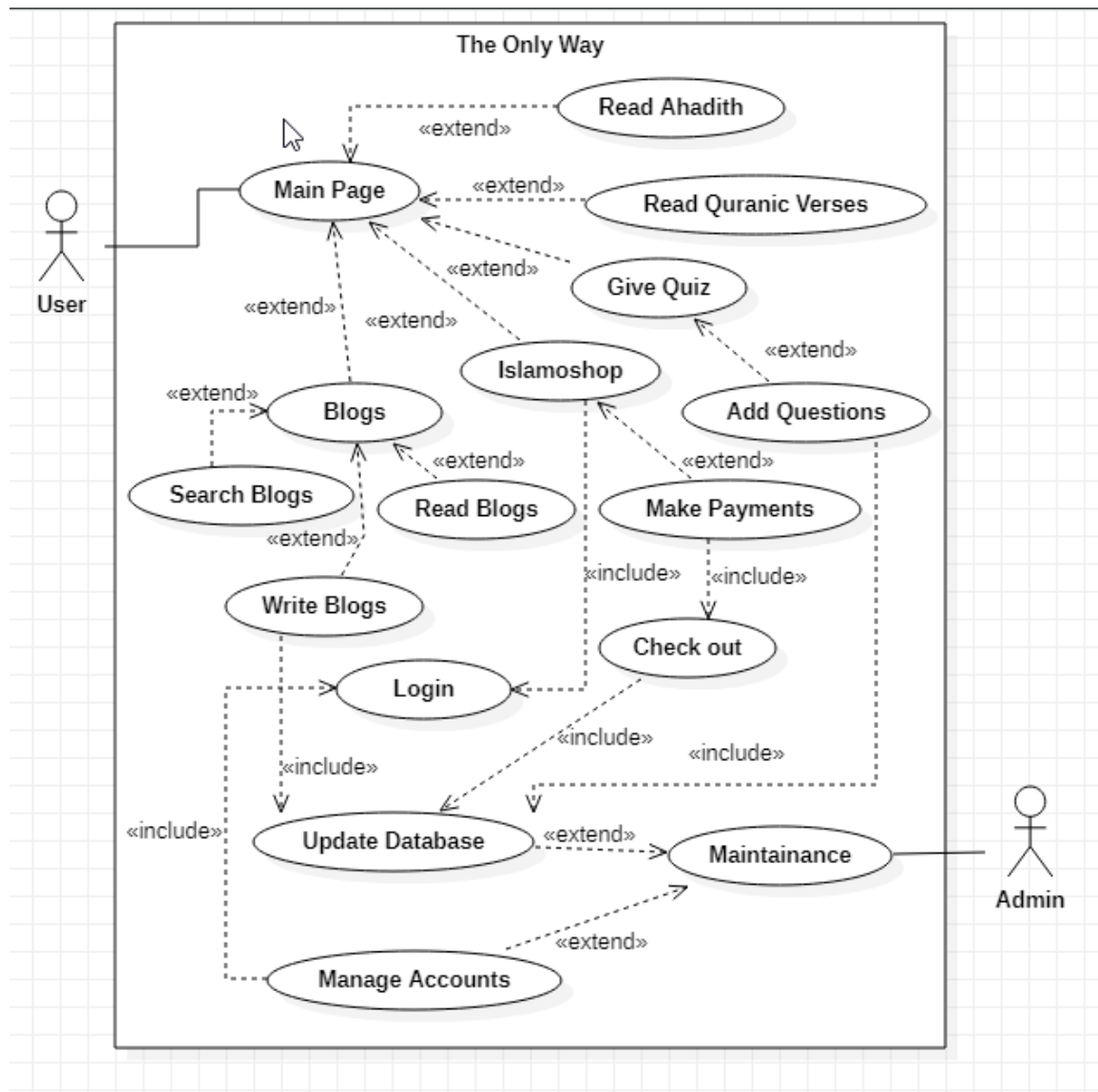


Figure 3.6: User Case Diagram

Chapter 4

Other Non-Functional Requirements

4.1 Performance Requirements

Since it is a religious website the major performance requirement is authenticity

4.1.1 Correct Interpretation of Verses:

The Quranic verses should be interpreted as they are and if explained then should be from the writing of an authentic religious person.

4.1.2 Authentic Hadith:

The hadith should belong to a well-known sources such as Sahi Muslim etc.

4.1.3 Correct Representation:

The Islamic blogs should represent the true picture of Islam or else the purpose of this project goes in vain.

4.1.4 Frequent updates:

New questions should be added to the quiz daily so that users should not lose interest.

4.1.5 Regular Checks:

The items in the market should be maintained constantly by the administrator so that out of stock items are again available for the users.

4.2 Safety and Security Requirements

Safety Requirements

There are no safety requirements for our website other than the normal hazards of computer system, like using a site for too long might cause eyestrain.

Security Requirements

- Strong passwords should be used to prevent bruteforce attacks.
- Payments should be done using VPN for further enhanced security.
- The administration will make sure the confidentiality of everything related to users.
- Most importantly two factor authentication is recommended for admin accounts as getting access to an admin account means manipulating everything such as blogs, meaning of Ayaat etc.

4.3 Software Quality Attributes

Availability:

The web application will be available 24/7 to users. They may receive a slight delay of minutes if the application is being updated.

Correctness:

The correctness of every feature will be checked periodically by a concerned person to make sure the robustness of the application.

Flexibility:

The application can be modified to various user requirements. It can be easily updated.

Interoperability:

The application has the capability to be used via any browser on any operating system from any country in the world.

Maintainability:

It is a rare case if a fault occurs in the application but it is easy to repair as the application is further divided into three applications which makes problem detection and solution very easy.

Portability:

The application can be accessed via any device with internet and a browser.

Reliability:

The application is designed in such a way that it can handle large amounts of traffic so it has been made sure it does not crash.

Reusability:

The existing application can act as a base or pillar in case of future enhancements and modifications due to the use of up-to-date technology.