

CHAPTER-01

INTRODUCTION

PURPOSE OF DOCUMENT:

The purpose of the Software Design Document is to provide a description of the design of a system fully enough to allow for software development to proceed with an understanding of what is to be built and how it is expected to built. Within the Software Design Document are narrative and graphical documentation of the software design for the project including use case models, sequence diagrams, collaboration models, object behavior models, and other supporting requirement information. The aim of this document is to gather and analyze and give in-depth insight of the complete *The Only Way* website. The detail requirements of the website are given in this document.

SCOPE OF THE PROJECT:

The Only Way website has a huge scope. The internet site will provide an authenticated login/ register to the user. The website is accommodating 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, tasbihs, canvas frame, miswak and etc.

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.
- **SQL-** 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.
- **VS Code-** Visual Studio Code is a code editor redefined and optimized for building and debugging modern web and cloud applications.

REFERENCES:

[How to Write Software Design Documents: With Examples | Toptal](#)
[Project Smart: Learn About Project Management and Planning](#)

OVERVIEW OF THE DOCUMENT:

Our website *The Only Way* falls under the umbrella of diverse category of Islamic Web-Sites; possessing the distinctive features.

- 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.

CHAPTER-02

OBJECT ORIENTED DESIGN:

DATA DICTIONARY:

Attributes	Datatype	Length	Example
User Profile			
User ID	int	AutoIncrement	2
User FirstName	varchar	50	Dawood
User LastName	varchar	50	Arshad
User Email	varchar	50	dawoodarshad01@gmail.com
User Password	varchar	50	extrapolate101
User Phone No.	varchar	50	02234421906

Blog			
Blog ID	int	AutoIncrement	5
Blog Title	varchar	50	Why Quran Education is compulsory?
Blog slug	varchar	100	Quran education
Blog Meta title	varchar	100	Individuals who endeavor to learn the Quran are among the luckiest people on the planet because they are attempting to comprehend the most profound source of knowledge in the universe, as expressed in the words of the Creator of all worlds.
Blog Content	text	-	-
Created at	datetime	-	January 21, 2020 14:00:23

Quranic Verses			
Verse ID	int	AutoIncrement	33
Topic	varchar	60	Solace in God's Presence
Verse	nvarchar	300	-
Translation	varchar	300	"And let not their speech grieve you. Indeed, honor [due to power] belongs to Allah entirely. He is the Hearing, the Knowing."
Reference	varchar	60	[10:65]

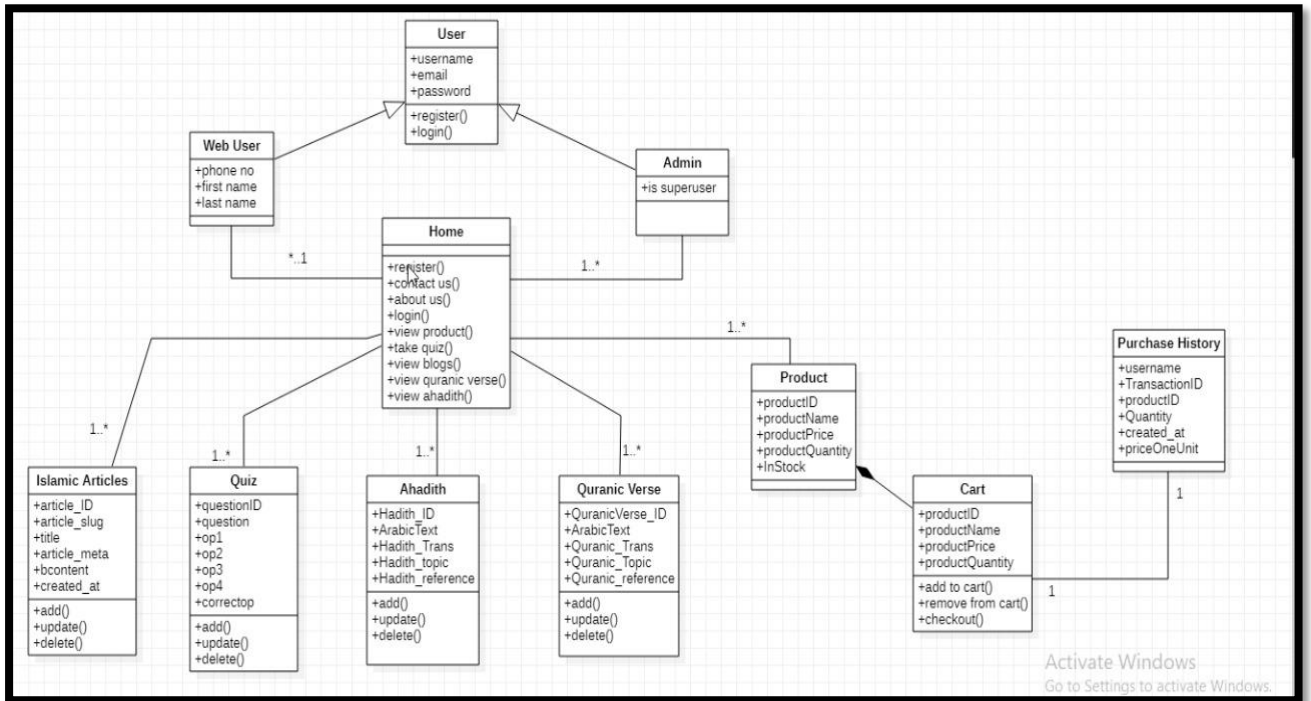
Hadith			
Hadith ID	int	Auto Increment	23
Hadith Topic	varchar	300	Depression
Hadith Translation	varchar	1000	-
Hadith Arabic text	nvarchar	2500	-
Hadith Reference	varchar	250	Sunan ibn Majah

Quiz			
Question ID	int	AutoIncrement	23
Question	varchar	80	What does the word "Islam" literally mean?
Option A	varchar	60	peace
Option B	varchar	60	religion
Option C	varchar	60	direction
Option D	varchar	60	submission
Correct Answer	varchar	60	submission

Product Details			
Product ID	int	Auto Increment	13
Product Name	varchar	200	Tasbih
Product Quantity	int	-	5
Product Price	decimal	-	1090.99
In Stock	Boolean	True/ False	Available/ Out of stock

Purchasing History			
Product ID	int	Auto Increment	23
Username	varchar	-	Fazeela Amjad
Transaction ID	int	-	10
Created at	datetime	-	July 24,2001
priceOneUnit	int	-	35,670
Quantity	int	-	5

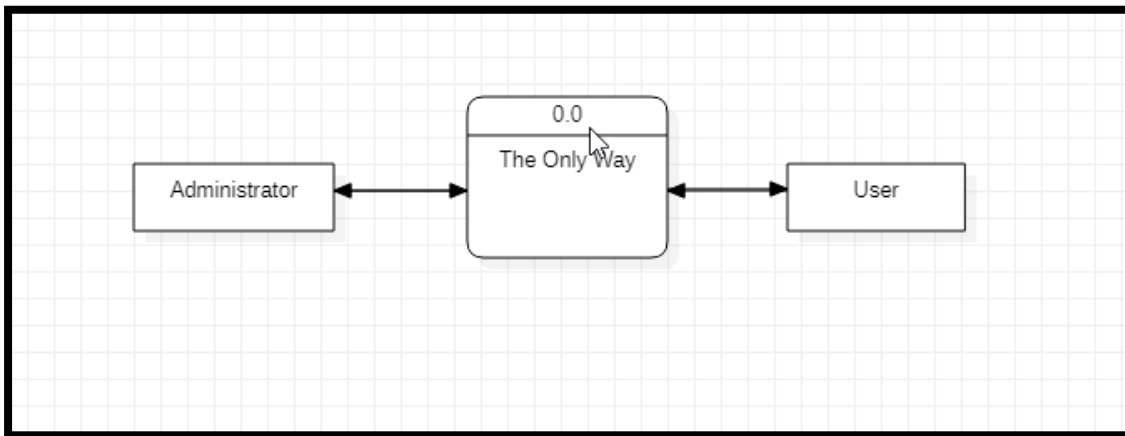
CLASS DIAGRAM:



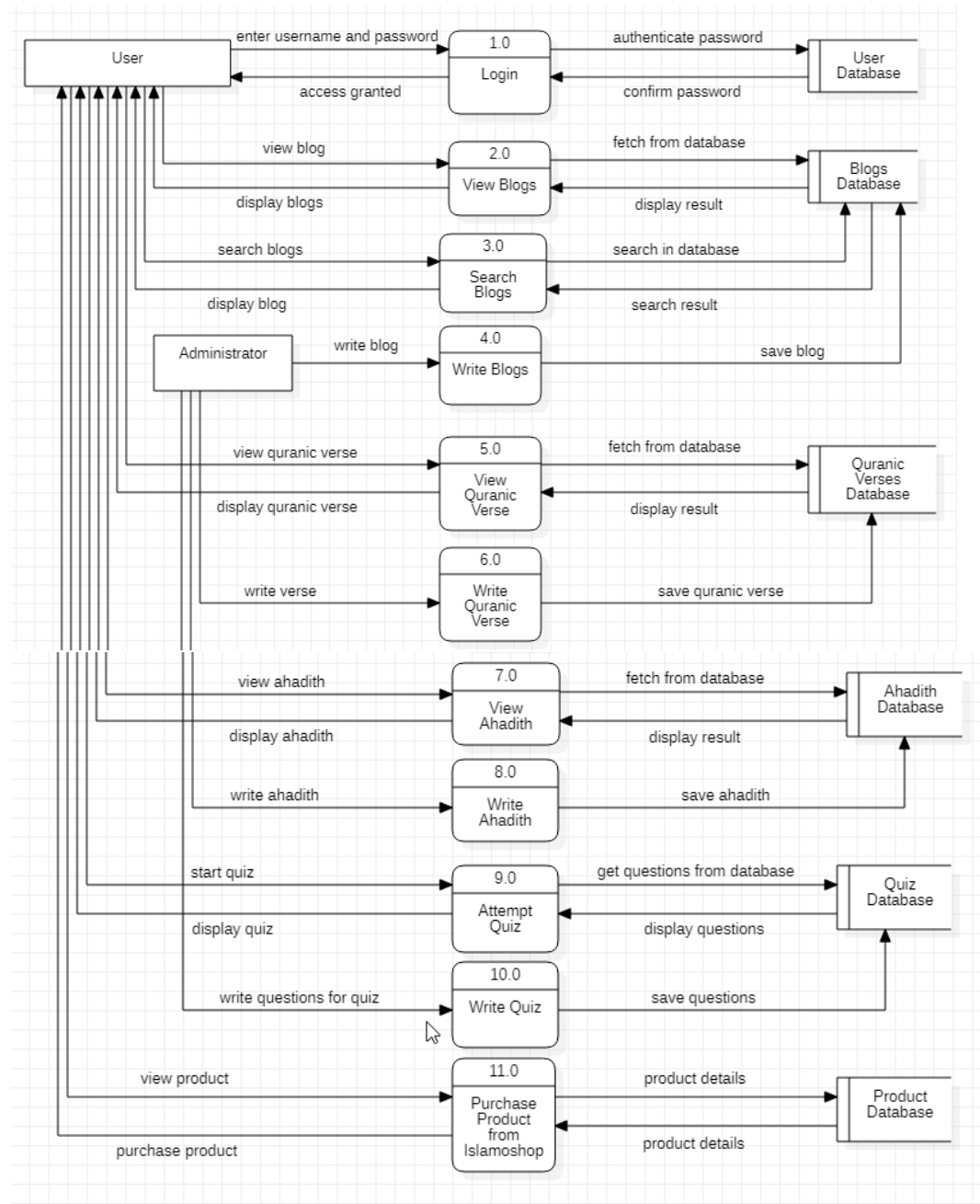
CHAPTER-03

FUNCTIONAL MODELING:

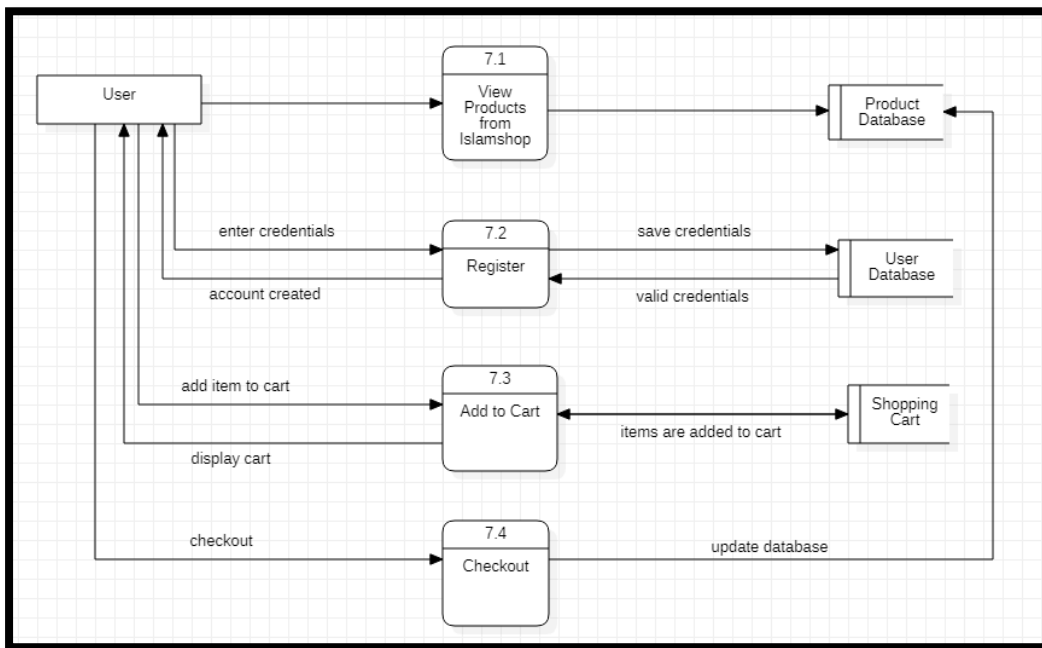
DFD LEVEL 0



DFD LEVEL 1



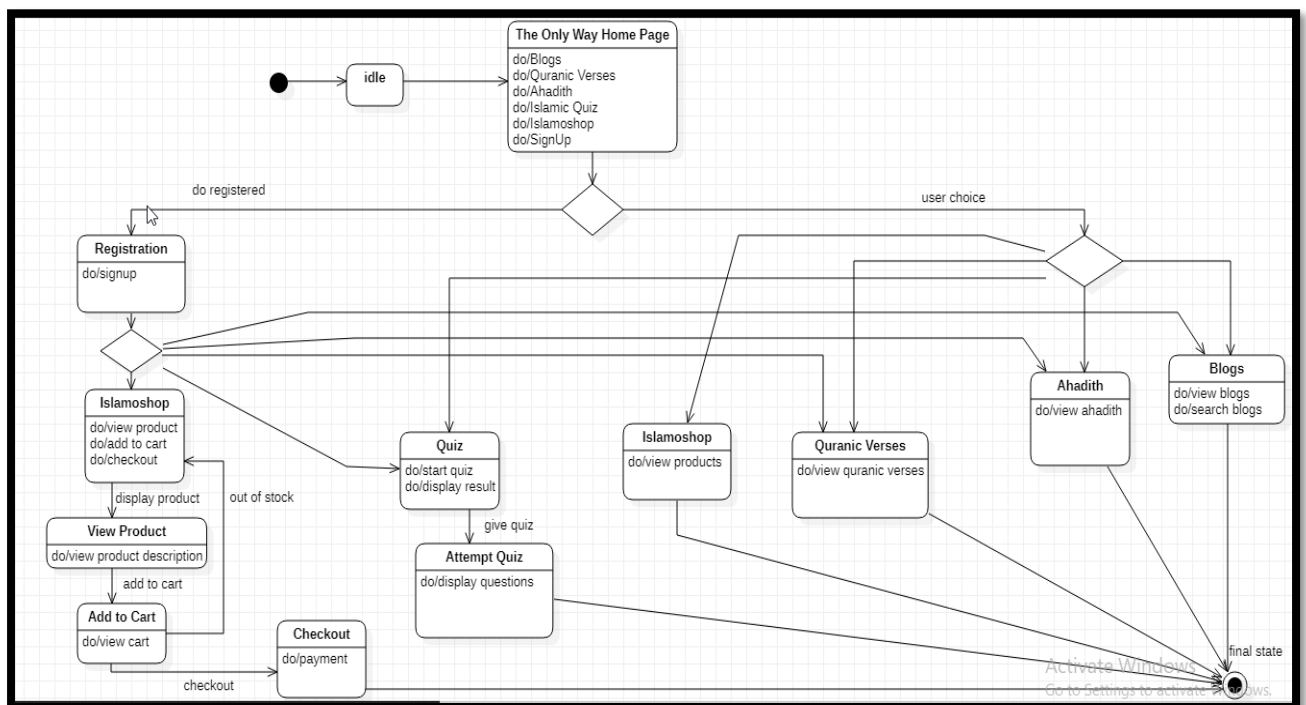
DFD LEVEL 2



CHAPTER-04

BEHAVIORAL MODELING:

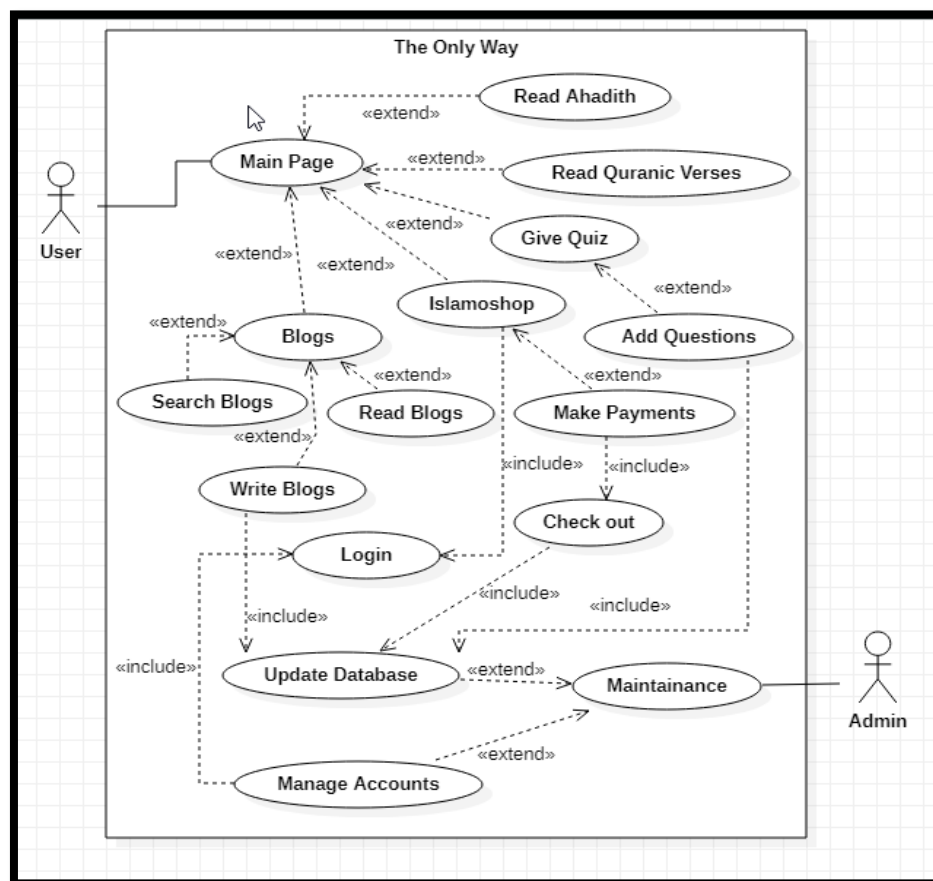
STATE TRANSITION DIAGRAM:



CHAPTER-05

INTERACTION MODELING:

USE CASE DIAGRAM:



SEQUENCE DIAGRAM:

Here Content database basically represent a generalized database which include blogs, ahadith, qur'anic verse, quiz and product database. While customer database includes information of user.

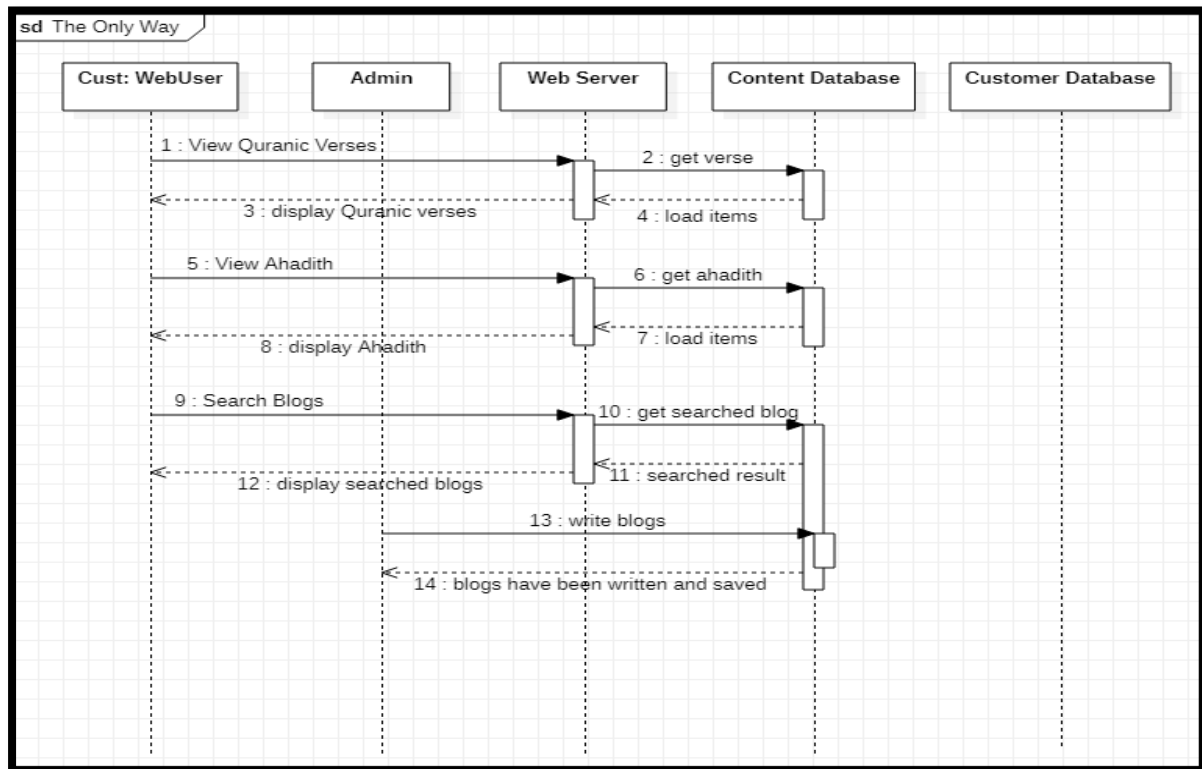
The Sequence diagram is broken into three scenarios:

Scenario I: Here a user can use all basic functionalities which incorporates view qur'anic verses, ahadith and seek blogs without login. Also, the blogs are written and saved in database via admin.

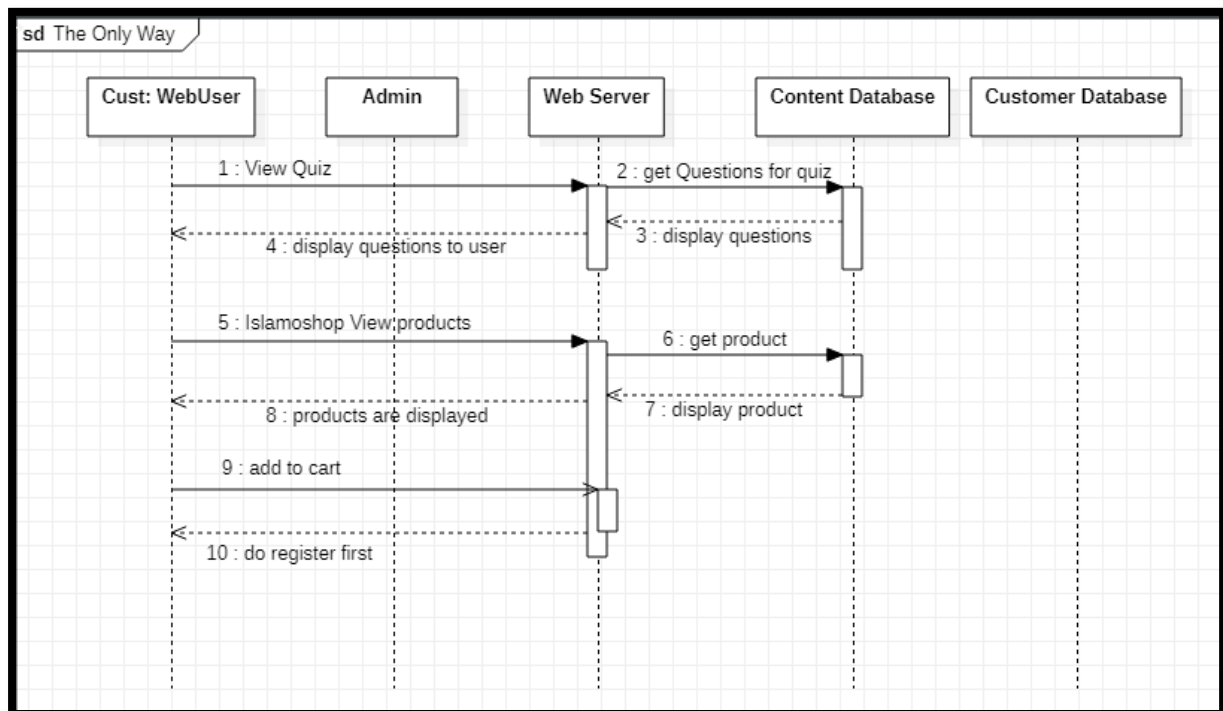
Scenario II: Here the user can take a look at his expertise by way of attempting quiz, additionally it doesn't require login. The user is likewise provided with Islamoshop, from where user can purchase merchandise however to shop user wishes to register first.

Scenario III: As the user get registered to the website, now he has access to buy products. After the purchase, the person is supplied with the bill, in addition to database is updated by way of the admin.

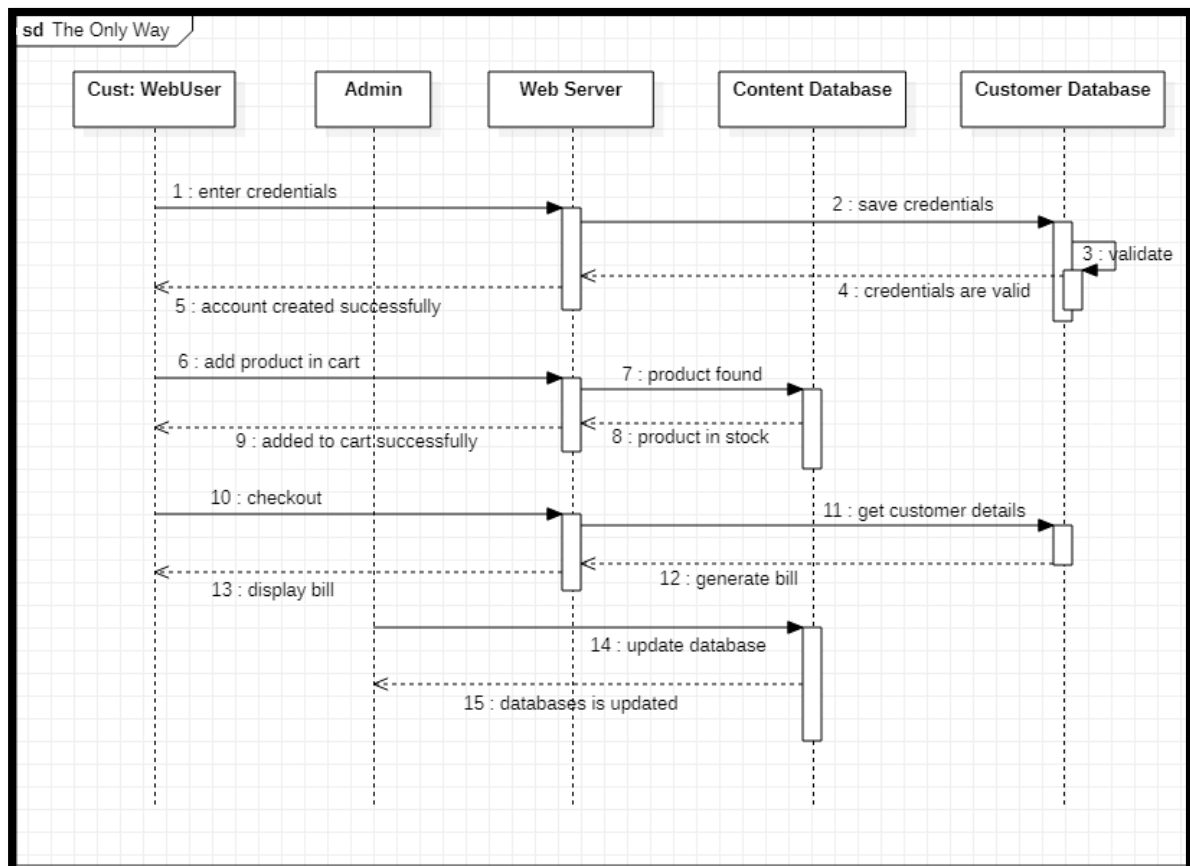
SCENARIO I:



SCENARIO II:



SCENARIO III:



CHAPTER-06

DEPLOYMENT MODELING:

COMPONENT DEPLOYMENT DIAGRAM:

