

DESIGN DOCUMENT

PROJECT NAME: FITHUB

PROJECT ID: 21

SOFTWARE ENGINEERING (CS-326)

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SUBMITTED TO MISS FAKHRA AFTAB

CHAPTER 1:

INTRODUCTION:

1.1 PURPOSE OF DOCUMENT:

A design document for a fitness website is a detailed plan that outlines the design and functionality of the website. It serves several purposes, including:

- Providing a clear vision and direction for the website's development: The design document helps to define the goals and objectives of the website, as well as the target audience and user needs that the website is intended to serve. This helps to ensure that the website is developed in a way that is aligned with the overall vision and goals of the project.
- Communicating design and functionality decisions: The design document outlines the various design and functionality elements of the website, including layout, navigation, content organization, and user interface (UI) elements. This helps to ensure that all stakeholders, including designers, developers, and project managers, have a clear understanding of how the website is intended to work and look.

Overall, the purpose of a design document for a fitness website is to provide a clear and detailed plan for the development of the website, and to ensure that all stakeholders are aligned and working towards the same goals.

1.2 SCOPE OF DOCUMENT:

The scope of a design document for a fitness website will vary depending on the specific needs and goals of the project. However, some common elements that may be included in the scope of a design document for a fitness website might include:

- A description of the target audience and user needs: The design document should clearly define who the website is intended to serve and what types of information and resources they are looking for.

- An overview of the website's content and functionality: The design document should outline the types of content that will be featured on the website, as well as the various functionality elements that will be included, such as workout calendars, tracking tools, and community forums.
- Detailed design specifications: The design document should include detailed specifications for the layout, navigation, and UI elements of the website, including wireframes, mockups, and visual design assets.

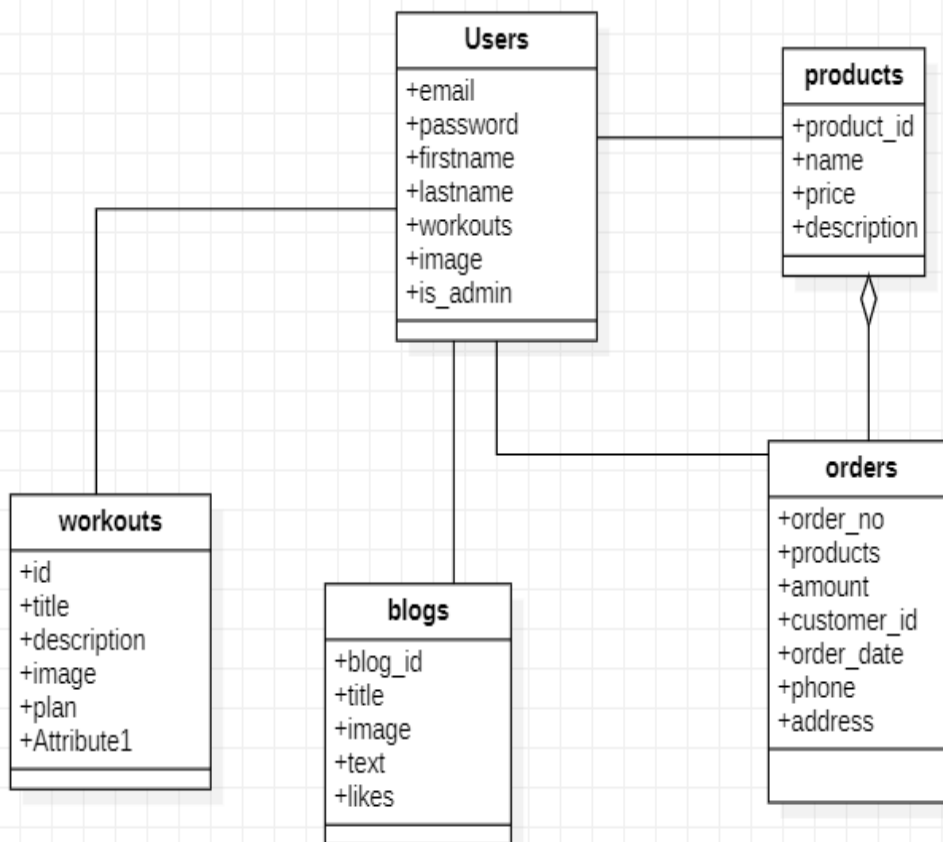
Overall, the scope of a design document for a fitness website should be comprehensive and include all of the elements necessary to develop and launch a successful website.

1.3 DEFINITIONS / ABBREVIATIONS OF DOCUMENT:

- **CD:** Class Diagram
- **UML:** Unified Modeling Language
- **DFD:** Data Flow Diagram
- **STD:** State Transition Diagram
- **UCD:** Use Case Diagram
- **SD:** Sequence Diagram
- **CDD:** Component Deployment Diagram

Chapter 2: OBJECT ORIENTED DESIGN

Class diagram:

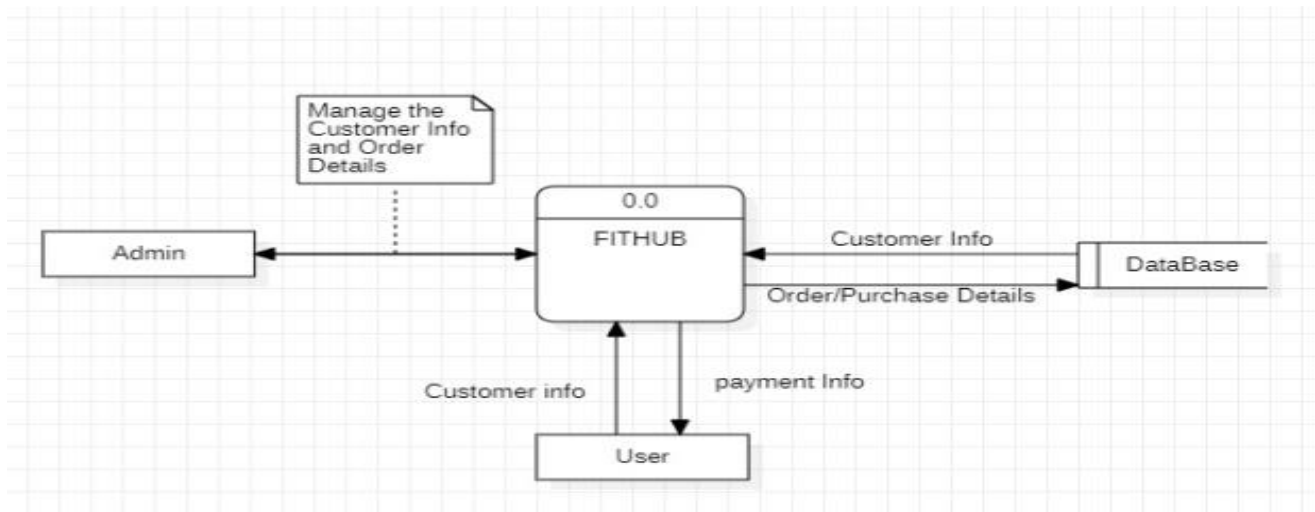


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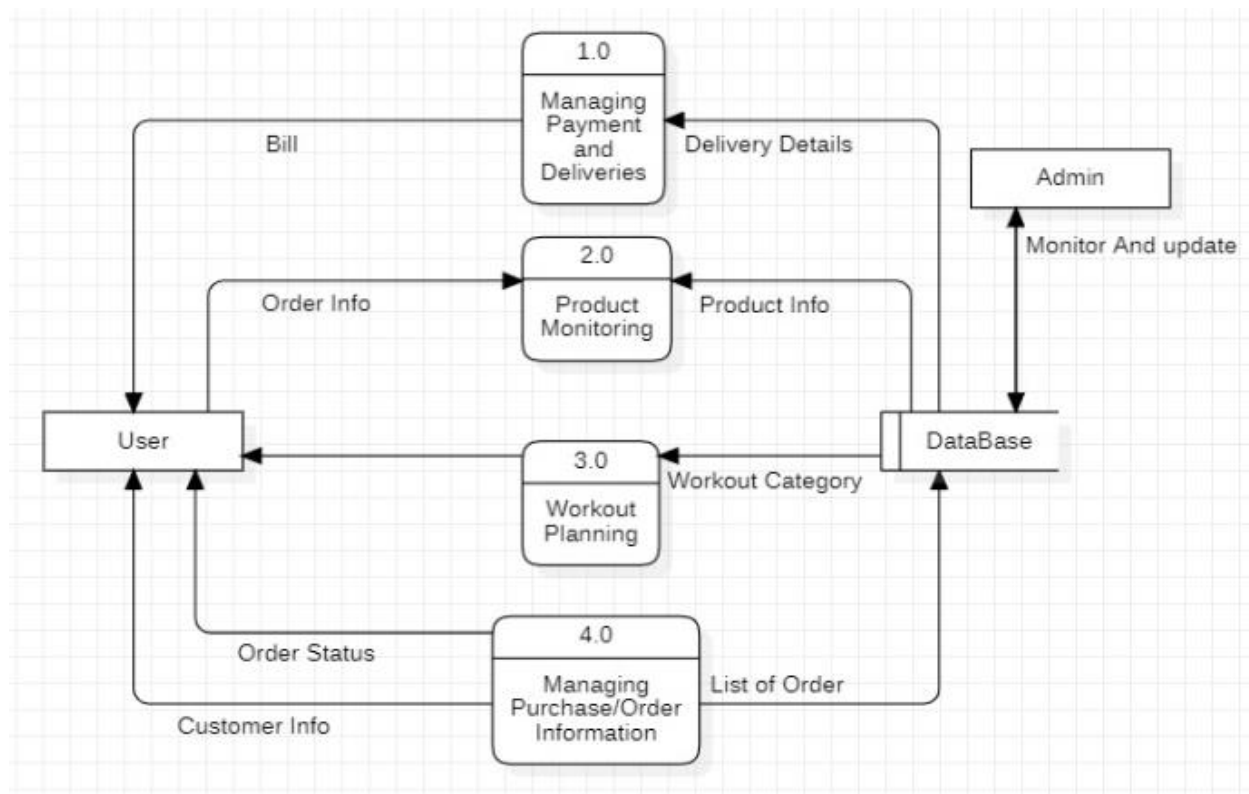
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	id	integer "id" integer NOT NULL
	password	varchar(128) "password" varchar(128) NOT NULL
	last_login	datetime "last_login" datetime
	email	varchar(255) "email" varchar(255) NOT NULL UNIQUE
	first_name	varchar(150) "first_name" varchar(150) NOT NULL
	last_name	varchar(150) "last_name" varchar(150) NOT NULL
	is_staff	bool "is_staff" bool NOT NULL
	is_active	bool "is_active" bool NOT NULL
	is_superuser	bool "is_superuser" bool NOT NULL
▼	main_workout	CREATE TABLE "main_workout" ("title"
	title	varchar(500) "title" varchar(500) NOT NULL
	desc	text "desc" text NOT NULL
	plan	text "plan" text NOT NULL
	workout_id	integer "workout_id" integer NOT NULL
	image	varchar(100) "image" varchar(100) NOT NULL
▼	main_blog	CREATE TABLE "main_blog" ("blog_id"
	blog_id	integer "blog_id" integer NOT NULL
	image	varchar(100) "image" varchar(100) NOT NULL
	title	varchar(500) "title" varchar(500) NOT NULL
	text	text "text" text NOT NULL
	likes	integer "likes" integer NOT NULL
▼	main_order	CREATE TABLE "main_order" ("order_id"
	order_id	integer "order_id" integer NOT NULL
	phone	varchar(50) "phone" varchar(50) NOT NULL
	address	text "address" text NOT NULL
	order_date	date "order_date" date NOT NULL
	amount	integer "amount" integer NOT NULL
	customer_id	bigint "customer_id" bigint NOT NULL
▼	main_product	CREATE TABLE "main_product" ("product_id"
	product_id	integer "product_id" integer NOT NULL
	name	varchar(50) "name" varchar(50) NOT NULL
	price	integer "price" integer NOT NULL
	desc	varchar(200) "desc" varchar(200) NOT NULL
	image	varchar(100) "image" varchar(100) NOT NULL

Chapter 3: FUNCTIONAL MODELING

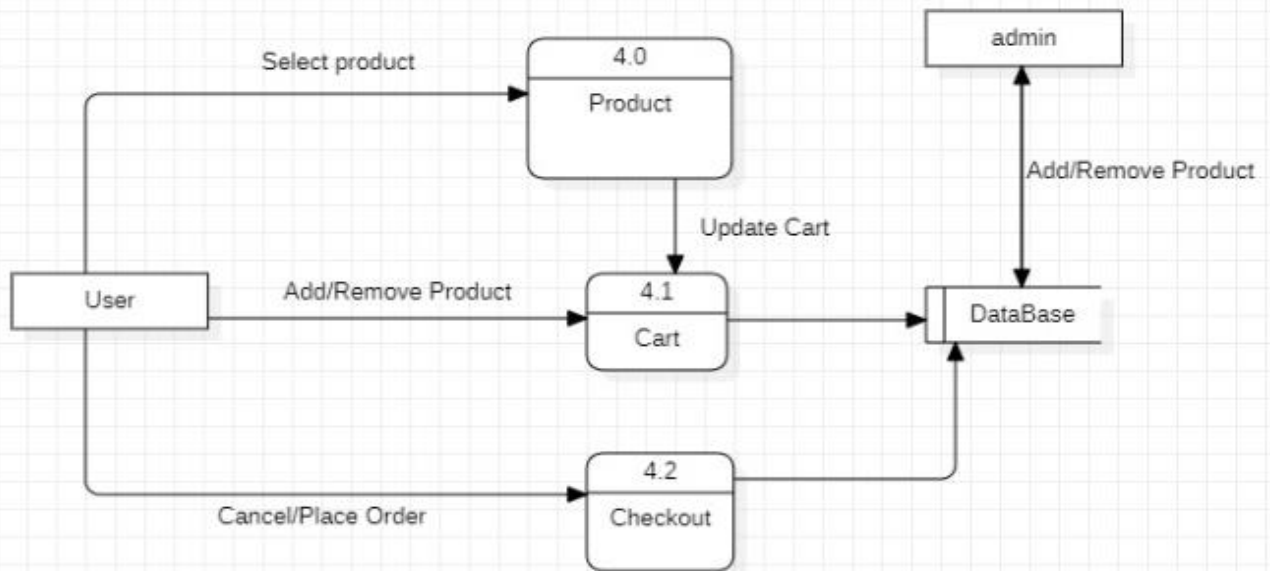
DFD LEVEL-0



DFD-LEVEL-1

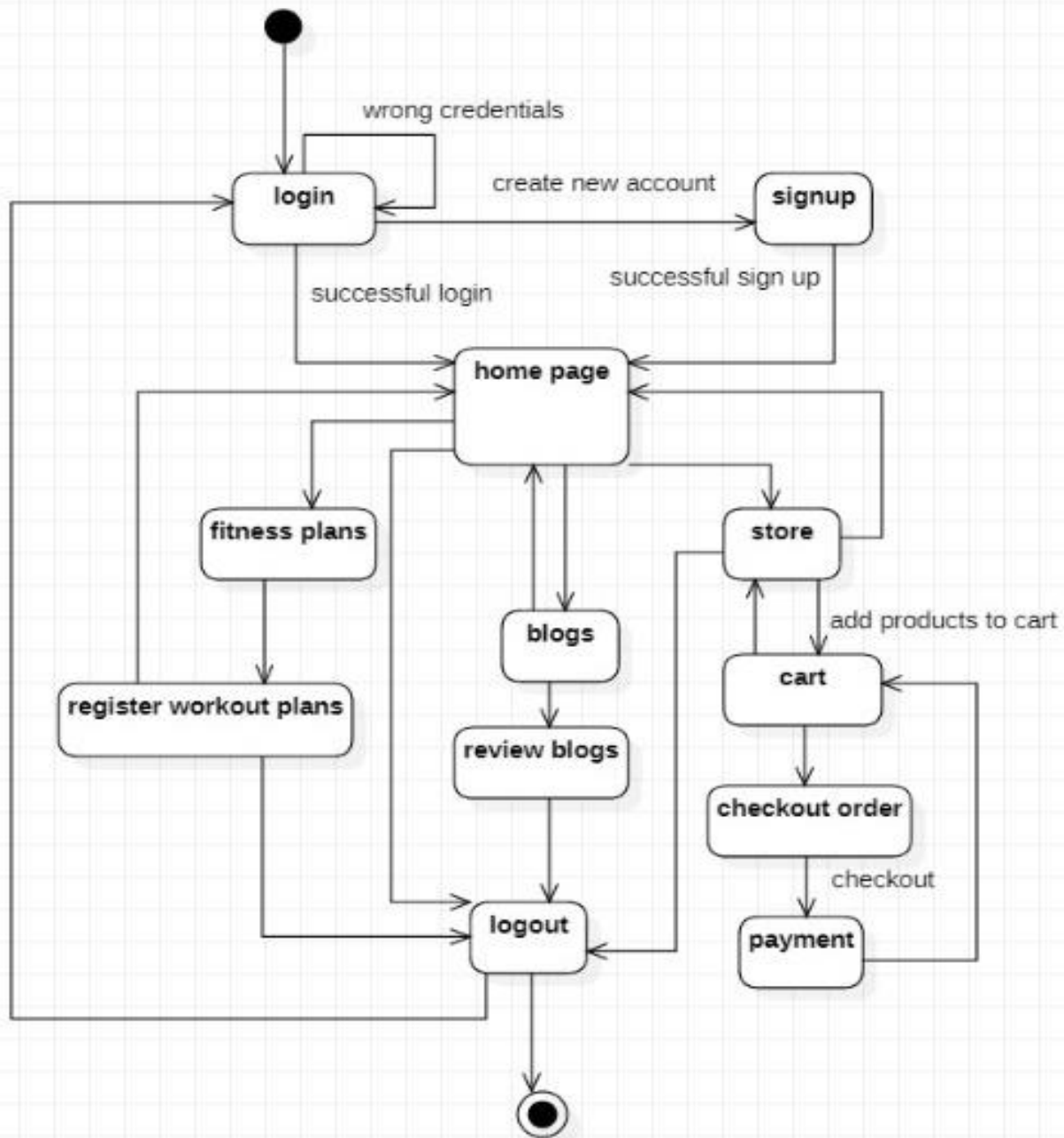


DFD LEVEL-2



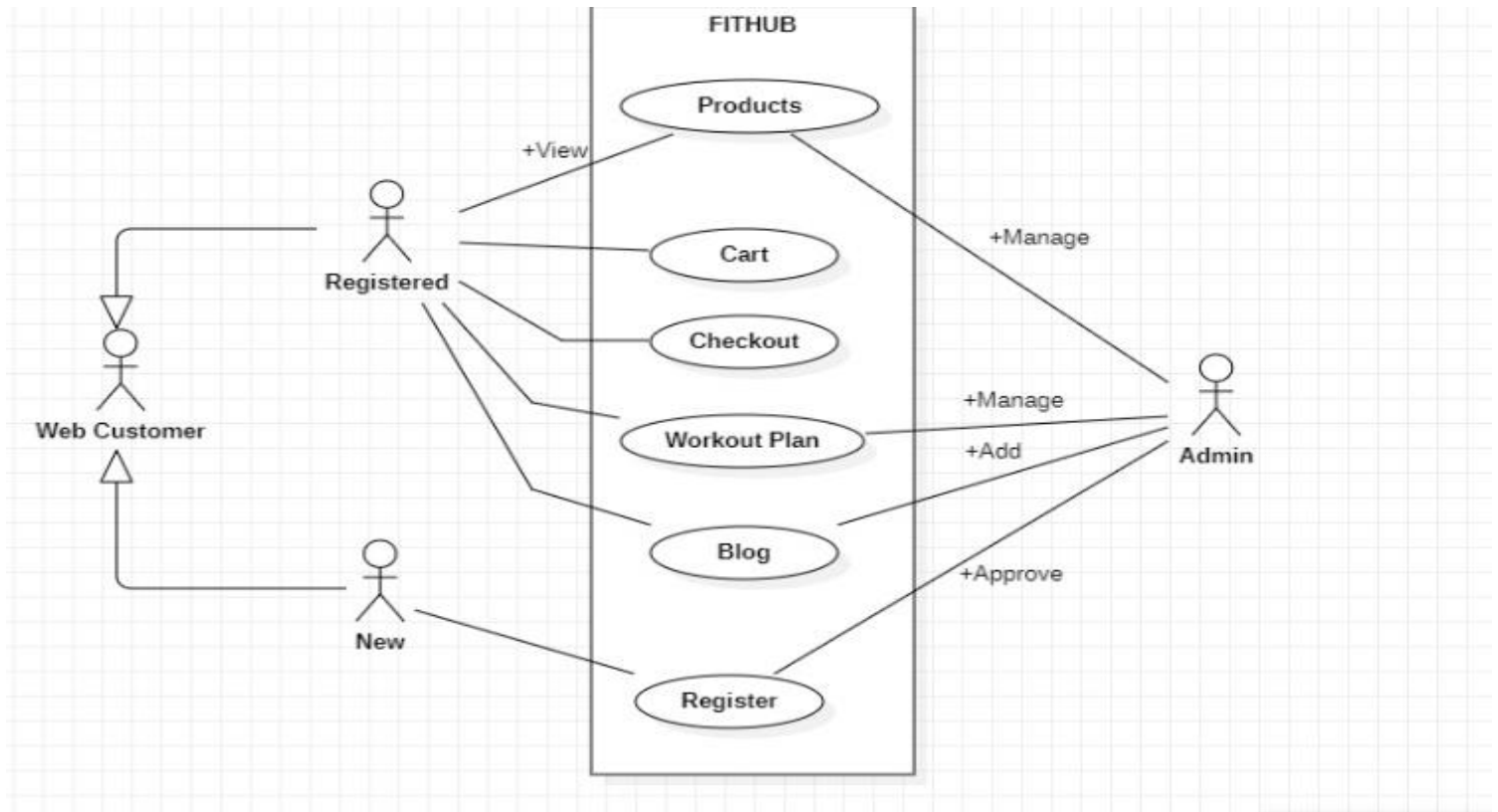
Chapter 4: BEHAVIORAL MODELING

State Transition Diagram

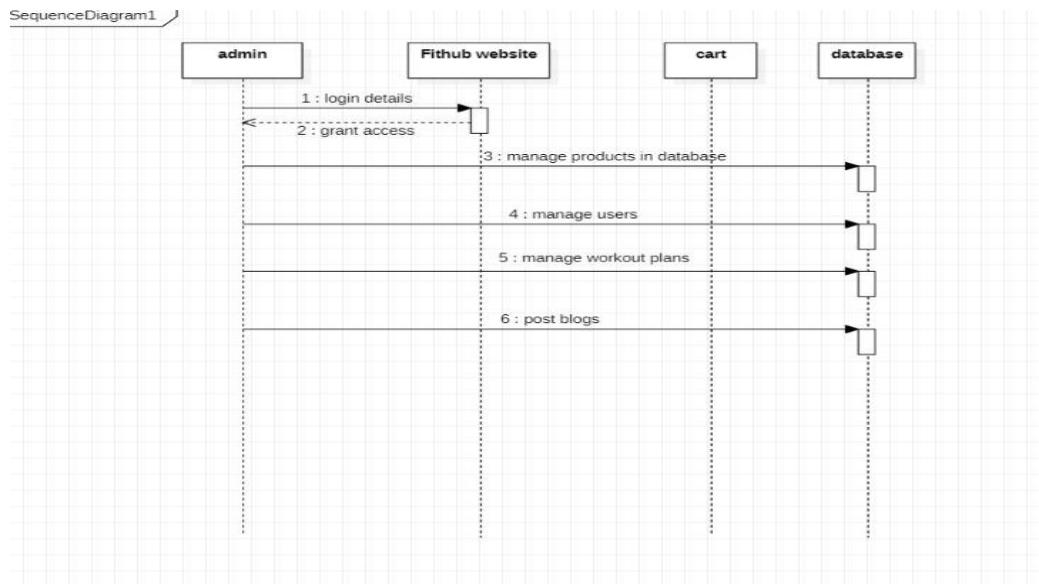
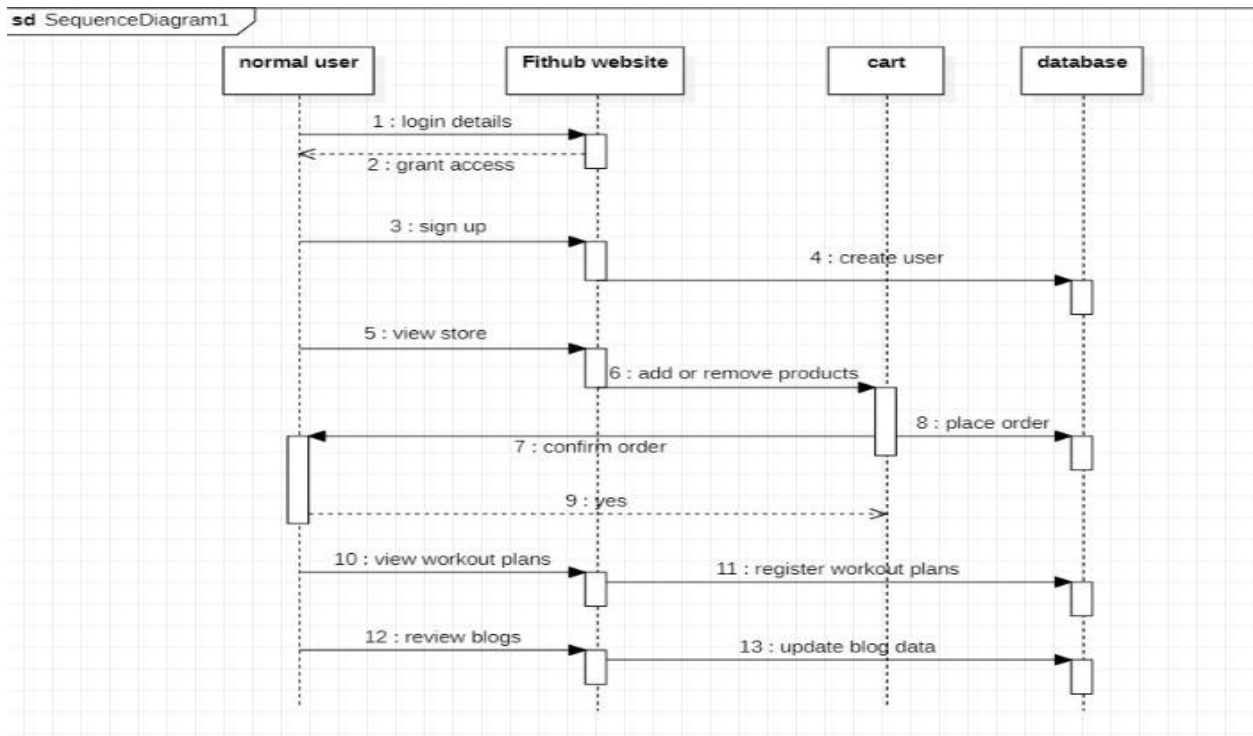


Chapter 5: INTERACTION MODELING

USE CASE DIAGRAM



SEQUENCE DIAGRAM FOR NORMAL USER



SEQUENCE DIAGRAM FOR ADMIN

Chapter 6: DEPLOYMENT VIEW

COMPONENT DEPLOYMENT DIAGRAM

