**Annexure-VI(b)**

**ADAPT Training**

**Capgemini**

**A training report**

Submitted in partial fulfilment of the requirements for the award of degree of **Batchelor of Technology(.Hons) (Electronics and Communication Engineering)**

**Submitted to**

**LOVELY PROFESSIONAL UNIVERSITY**

**PHAGWARA, PUNJAB**

****

**From 08/01/2021 to 24/04/2021**

**SUBMITTED BY**

|  |  |
| --- | --- |
| **Name** | **Kummarakuntla Shirdi** |
| **Registration Number** | **11700964** |
| **Signature** |  |

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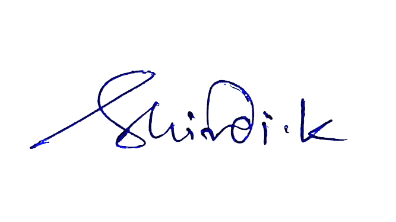
# Annexure-VI(c): Student Declaration

**To whom so ever it may concern**

I, Kummarakuntla Shirdi, 11700964, hereby declare that the work done by me on “ADAPT Training” from January,2021 to May,2021, under the supervision of Onkar Deshpande, Trainer, Capgemini, and Dr.Parminder Singh, Assistant Professor, Lovely Professional University, Phagwara, Punjab, is a record of original work for the partial fulfilment of the requirements for the award of the degree, Batchelor of Technology(.Hons).

Name: Kummarakuntla Shirdi (11700964)

Signature:

****

Dated:

Dated:

# Annexure-VI (d): Declaration by the supervisors

**To whom so ever it may concern**

This is to certify Kummarakuntla Shirdi, 11700964 from Lovely Professional University, Phagwara, Punjab, has worked as a trainee in Capgemini on “ADAPT Training” under my supervision from January 2021 to May 2021. It is further stated that the work carried out by the student is a record of original work to the best of my knowledge for the partial fulfilment of the requirements for the award of degree, Batchelor of Technology(.Hons).

|  |  |  |
| --- | --- | --- |
| Name of the External Supervisor:  Designation of the External Supervisor:  Signature of the External Supervisor: |  | Name of the Internal Supervisor:  Designation of the Internal Supervisor:  Signature of the Internal Supervisor |

# Acknowledgement

I pay deep sense of gratitude to my Internal Mentor Dr. Parminder Singh, Lovely Professional University and External Mentor Mr. Onkar Deshpande, Capgemini who gave me opportunity to complete this On Job Training “ADAPT Training” which enriched me in Full Stack Development, which is the First Milestone in my career.

Dated:

# Annexure-VII

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**ADAPT Training**

**Capgemini**

**A training report**

**From 08/01/2021 to 24/04/2021**

Submitted in partial fulfilment of the requirements for the award of degree of **Batchelor of Technology** **(Electronics and Communication Engineering(.Hons))**

**Submitted to**

**LOVELY PROFESSIONAL UNIVERSITY**

**PHAGWARA, PUNJAB**

|  |  |
| --- | --- |
| **Name of the Student:**  Kummarakuntla Shirdi  **Registration Number:**  11700964 | **Supervisors:**  **Name of the External Supervisor:**  Onkar Deshpande  **Name of the Internal Supervisor:**  Dr.Parminder Singh |

# INTRODUCTION TO THE PROJECT UNDERTAKEN

The Project is to build a Fully Functional Full Stack Web Application from Scratch Individually, using the following Technologies:

* MongoDB
* Spring
* React

The name of the Project undertaken is “**Deals and Coupons Site**” which is a Single Page Web Application that lets the user to grab best Deals and Coupons in the market at one stop.

## Objectives of the work undertaken

The Objective of the work is to build the application from bottom to top order:

1. Project Design and Document
2. Backend Implementation
3. Frontend Implementation

### Project Design and Document:

In this part of the project, the design and documentation of the project is done. First, I have designed the Structure of the Project from Backend, The Backend is implemented in Spring Boot in VS Code. The project is designed in Micro-Service based architecture, in which the whole project is divided into different micro-services depending on the functionality and features of the project. In my case they are,

* Discovery Server
* Auth Application
* Coupons Manager
* Deals Manager
* Rewards Manager

The above are the Micro-Services in the project. I have designed and Represented the Structure of the Project in a website called miro.com .

#### Discovery Server:

The Discovery Server handles the rest calls among the Micro-Services dynamically with Load Balancing.

#### Auth Application:

The Auth Application deals with the User operations in the project which includes Authentication, Authorization, Creation, Updating, Deletion of the users in the Application.

#### Coupons Manager:

The Coupons Manager deals with the Coupon operations in the project which includes the Addition, Deletion and Updating the Coupons.

#### Deals Manager:

The Deals Manager deals with the Deal operations in the project which includes the Addition, Deletion and Updating the Deals.

#### Rewards Manager:

The Rewards Manager deals with the Addition and Subtraction of the Rewards in the User account.

* Addition 🡪 When User grabs a Deal
* Subtraction 🡪 When User grabs a Coupon

All the Structural and Implementation information is documented in Project Document.

### Backend Implementation:

In this part of the project, Middleware and the Backend of the project is Implemented using Spring Boot in VS Code. All the Micro-Services are implemented in their respective individual project and then integrated with Rest api(Application Programming Interface). In each project, all the files are segregated into their respective packages with respect to their functionality. The packages are,

* Configuration
* Controller
* Model
* Service
* DTO(Data Transfer Object)
* Filter
* Util

#### Configuration:

This package contains all the configuration files of the Application.

***Ex:*** Security Configuration, Spring Fox Configuration for Swagger UI.

#### Controller:

This package contains all the rest controllers which are responsible for the rest calls among the micro-services.

***Ex:*** Admin Controller, User Controller.

#### Model:

This package contains all the models which are responsible for all the data and structure of the application.

***Ex:*** User Model, Deal Model

#### Service:

This package contains all the services which are responsible for all the functionality of the application.

***Ex:*** User Details Service

#### DTO:

This package contains all the data transfer objects which are responsible for all the rest calls data transmission and reception in the application.

***Ex:*** Deal Adder , Coupon Adder

#### Filter:

This package contains all the filter of the application.

***Ex:*** Jwt Request Filter

#### Util:

This package contains all the utilities of the application.

***Ex:*** Jwt Util

The above essential packages are implemented, tested for the working of the application for the further implementation of the project. Each Micro-Service undergo the same process one by one of implementation.

### Frontend Implementation:

In this part of the project, Frontend of the project is implemented using React in VS Code. The code of the Frontend is segregated into their respective folders to enhance the code readability.

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# INTRODUCTION OF THE COMPANY

## Capgemini

Capgemini SE is a French multinational corporation that provides consulting, technology, professional, and outsourcing services. It is headquartered in Paris, France. Capgemini has over 200,000 employees in over 40 countries, of whom nearly 100,000 are in India. (Capgemini, n.d.)

## History

Capgemini was founded by Serge Kampf in 1967 as an enterprise management and data processing company. The company was inaugurated as the Société pour la Gestion de l'Entreprise et le Traitement de l'Information (Sogeti).In 1974 Sogeti acquired Gemini Computers Systems, a US company based in New York. In 1975, having made two major acquisitions of CAP (Center d'Analyze et de Programmation) and Gemini Computer Systems, and following resolution of a dispute with the similarly-named CAP UK over the international use of the name 'CAP', Sogeti renamed itself as CAP Gemini Sogeti.Cap Gemini Sogeti launched US operations in 1981, following the acquisition of Milwaukee-based DASD Corporation, specializing in data conversion and employing 500 people in 20 branches throughout the US. Following this acquisition, The U.S. Operation was known as Cap Gemini DASD.In 1996, the name was simplified to Cap Gemini with a new group logo. All operating companies worldwide were re-branded to operate as Cap Gemini.Ernst & Young Consulting was acquired by Cap Gemini in 2000. It simultaneously integrated Gemini Consulting to form Cap Gemini Ernst & Young.In 2017, Cap Gemini S.A. became Capgemini SE, and its Euronext ticker name similarly changed from CAP GEMINI to CAPGEMINI. (Capgemini, n.d.)

In a move to create a global computer services consulting firm, Cap Gemini S.A. of France announced today that it was acquiring the consulting practice of Ernst & Young, one of the world's largest accounting firms, in a deal worth $11.1 billion.Cap Gemini said it would pay 375 million euros, or $362 million, in cash and issue up to 43.5 million new shares, if all the consulting businesses of Ernst & Young accept the offer.

The stock will be divided among Ernst & Young's 1,000 consulting partners, who will then work for Cap Gemini, and the 4,000 accounting and tax partners that will remain with the auditing firm. About a third of the shares will go to the consulting partners and another third to the accounting and tax partners, who must sell their stock within five years. The remainder will go to finance Ernst & Young's pension plan and to pay for a variety of other expenses, including tax bills and transaction costs.

The deal represents the latest attempt by the accounting industry to try to address competitive pressures facing consultants and to allay regulators' concerns about the integrity of corporate audits. If it succeeds, it will be the first time one of the largest accounting firms has sold its major consulting business and will afford Cap Gemini, the biggest European computer services company, a major entry into the United States. (International Business Capgemini to Acquire Ernst Young Consulting Business, n.d.)

## Management

The Capgemini Group Executive Committee consists of 25 members. Paul Hermelin serves as the Group Chairman and CEO. He joined Capgemini in 1993 and was appointed as its CEO in 2002. In May 2012, Hermelin became chairman and CEO of the Capgemini Group. He succeeded Serge Kampf, who served as the Vice Chairman of the Board until his death on March 15, 2016. The Capgemini Group has two Chief Operating Officers - Thierry Delaporte and Aiman Ezzat. (Capgemini, n.d.)

Mr. Paul Hermelin is a graduate of École Polytechnique and École Nationale d’Administration. Mr. Paul Hermelin is a graduate of École Polytechnique and École Nationale d’Administration. He spent the first fifteen years of his professional life in the French government, primarily in the Ministry of Finance. He held a number of positions in the Budget Office and on various ministry staffs, including that of Finance Minister Jacques Delors. He was chief of staff to the Minister of Industry and Foreign Trade, from 1991 to 1993. Mr. Paul Hermelin joined the Capgemini Group in May 1993, where he was first in charge of coordinating central functions. In May 1996, he was appointed member of the Management Board and Chief Executive Officer of Capgemini France. In May 2000, following the merger of Capgemini and Ernst & Young Consulting, he became Chief Operating Officer of the Group and director. On January 1, 2002, he became Chief Executive Officer of the Capgemini Group, followed by Chairman and Chief Executive Officer on May 24, 2012. He has been a member of the Strategy & Investment Committee since July 24, 2002.

Principal office: Mr. Paul Hermelin has been Chairman and Chief Executive Officer of Capgemini SE since May 2012. (Paul Hermelin Biography – Capgemini Worldwide, n.d.)