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LIST OF ABBREVIATIONS

A

- **ASP:** ASP stands for Active Server pages. It is the server side technology allowing the procedural language to be embedded in HTML.
- **ASP.Net:** ASP.NET is a web application framework developed and marketed by Microsoft, which programmers can use to build dynamic web sites, web applications and web services.
- **Activity Diagram:** This UML diagram is similar to flowchart and is used to represent what happens as the system performs its function.
- **Affiliate:** Affiliates are also known as agents. They are those entities that will distribute the coupons to customers on behalf of the company.
- **AJAX:** Asynchronous JavaScript and XML. It is a group of interrelated web development techniques used to create interactive web applications or rich Internet applications.

C

- **Campaign:** Campaign is an offer. It will contain a number of coupons that will be distributed to the customers.
- **Category:** Category is an entity that differentiates different types of campaigns. One category can have a number of Campaigns. A category of a Campaign will be decided from the category of the company.
- **Class Diagram:** A means of representing the classes of the system and also the relationships among them, the roles of the classes and the modality.

- **Coding:** Coding means implementing rules that are used to map the elements of one set onto the elements of another set, usually on a one-to-one basis.
- **Company:** Company is an entity which will generate the campaigns and all the coupons.
- **Coupon:** Coupon is an entity that will be transferred between various users of the system to avail a particular offer.
- **Customer:** Customer is an entity that will buy coupons from Affiliates and redeem at appropriate Franchisee.

D

- **Data Dictionary:** It is a representation of all objects and its data types and its lengths and finally the description of all the objects which have been used in our system.
- **Database Design:** Database design is the process of producing a detailed data model of a database. This logical data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design in a DDL, which can then be used to create a database.
- **Database Server:** A database server is a computer program that provides database services to other computer programs or computers, as defined by the client-server model.

E

- **Estimation- Estimation** is the calculated approximation of a result which is usable even if input data may be incomplete or uncertain.

F

- **Followers:** Follower is a Customer that is interested in a Company's campaigns. A Customer can follow a Company from the homepage.
- **Franchisee:** Franchisee is an entity which will accept Coupons from a Customer.
- **Front end service:** Client side service.
- **Function:** It describe in the statement of scope are evaluated and in some cases refined to provide more detail prior to the beginning of estimation.
- **Feasibility Study:** The results of this study are used to make a decision whether to proceed with the project, or not.
- **Foreign Key:** A foreign key is a referential constraint between two tables. The foreign key identifies a column or a set of columns in one (referencing) table that refers to a column or set of columns in another (referenced) table.

G

- **Gantt chart:** A Gantt chart is a popular type of bar chart that illustrates a project schedule. Gantt charts illustrate the start and finish dates of the terminal elements and summary elements of a project.
- **GUI-** In computing a **Graphical User Interface** is a type of user interface that allows users to interact with electronic devices with images rather than text commands. *GUIs* can be used in computers, hand-held devices such as MP3 players, portable media players or gaming devices, household appliances and office equipment. A *GUI* represents the information and actions available to a user through graphical icons and

visual indicators such as secondary notation, as opposed to text-based interfaces, typed command labels or text navigation. The actions are usually performed through direct manipulation of the graphical elements.

H

- **HTML:** It is the World Wide Web's content rendering language. It is basically a collection of tags which makes the browser interpret how to display the contents.
- **Hardware-** A Personal Computer is made up of multiple physical components of computer hardware, upon which can be installed a system software called operating system and a multitude of software applications to perform the operator's desired functions.

I

- **Implementation:** An implementation is a realization of a technical specification or algorithm as a program, software component, or other computer system.
- **Interfaces-**In the field of computer science, an **interface** is a tool and concept that refers to a point of interaction between components, and is applicable at the level of both hardware and software. This allows a component, whether a piece of hardware such as a graphics card or a piece of software such as an internet browser, to function independently while using interfaces to communicate with other components via an input/output system and an associated protocol.

J

- **JavaScript:** JavaScript is a scripting language used in many websites. A scripting language is interpreted in run-time. It is not compiled like other languages

M

- **Module-** Large Software or Application is divided into small mostly independent parts which are known as Modules. Modules are made for fast and better development of the Application.

N

- **.Net Framework:** The .NET Framework class library is a collection of reusable types that tightly integrate with the common language runtime.

P

- **Process:** something that transfers the data value. It processes input data and generates the output of data.
- **Project Plan:** A project plan is "A formal, approved document used to guide both project execution and project control.
- **Primary Key:** The primary key of a relational table uniquely identifies each record in the table.

R

- **Requirement analysis:** Requirement analysis categorizes requirement and organizes them into related subsets.
- **Requirement specification:** It is the final work product produced by the system and requirements engineer.

S

- **SQL Server:** Microsoft SQL Server is a relational database management system (RDBMS) produced by Microsoft. Its primary query language is Transact-SQL, an

implementation of the ANSI/ISO standard Structured Query Language (SQL) used by both Microsoft and Sybase.

- **Software model:** To solve the actual problem in an industry setting, software Engineer or team of engineers must incorporate a development strategy that encompasses the process, methods and tools layers and generic phases.
- **System:** an organized collection of components that interact with each other.
- **System Design:** The first stage of design, during which high-level decisions are made about the overall structure of the system.
- **Sequence Diagram:** Sequence diagrams are used to represent or model the flow of messages, events and actions between the objects or components of a system.

T

- **Table:** A table is a set of data elements (values) that is organized using a model of horizontal rows and vertical columns.

U

- **User Interface:** The user interface means by which people—*the users*—interact with *the system*—a particular machine, device, computer program or other complex tools.
- **UML Diagram:** The Unified/Universal Modelling Language (UML) is a standardized visual specification language for object modelling. UML is a general-purpose modelling language that includes a graphical notation used to create an abstract model of a system.
- **Use Case Diagram:** Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals—represented as use cases—and any dependencies between those use cases.

- **Use Case Scenario:** The scenario identifies a thread of usage for system to be constructed. It provides a description of how the system will be used.

W

- **Web Browser:** A web browser is a software application which enables a user to display and interact with text, images, videos, music and other information typically located on a Web page at a website on the World Wide Web or a local area network.

X

- **XML:** The Extensible Markup Language (XML) is a general-purpose *specification* for creating custom markup languages. It is classified as an extensible language because it allows its users to define their own elements.



CERTIFICATE

This is to certify that the project entitled “*Sensor based smart coupon distribution and trackin system*” is a bonafied report of the work carried out by Mr./Miss (1) *Dhara Shah (11CE75)* (2) *Miki Patel (11CE65)* (3) *Alisha Vyas(11CE19)* (4)*Karan Patel(11CE106)* for User Defined Project in Semester VIII under the guidance and supervision of **Prof. Sonu Choudhary** for the partial fulfillment of award of the Degree of Bachelor of Computer Science and Engineering at BITS edu campus, Varnama, Vadodara, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate himself/herself/themselves, has/have duly completed, fulfills the requirement of the ordinance relating to the Bachelor Degree awarded by Gujarat Technological University and is up to the standard in respect of content, presentation and language for being referred to the Examiner.

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