**CST-217 Functional Requirements Document**

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# INTRODUCTION

The system is a database we are creating for an organization we chose which we will populate with data, then query it to extract information that is relevant to the organization.

## Purpose

The FRD purpose is to explain in detail the requirements needed for each part of the system and how it can support the system. It is used to explain and show how these parts are required in the organization of our choice, Instagram, and show the displayed data that correlates to the information needed to identify in the organization.

## Scope

The scope of this document is to explain identities and their attributes and show the relations between the two and explain whether it is required or can be null. It accomplished its purpose by showing how the entity is relevant to the organization and how the attributes make sense within the entity and whether it is required or can be NULL. Specific information based on information requested based on different categories of the users of the system.

## Background

The organization we chose is Instagram. Instagram is a global platform and is now a part of Meta Inc. and has over 2.35 billion monthly active users. Instagram is a social media platform and is used for users to share primarily photos and videos. Instagram’s responsibility is to provide a platform for users to share moments, connect with others, and discover new interests through visual means like photos and videos. The document is being produced by us because it was an assginment.

## References

The main source our group used to create the FRD is Instagram.com.

### Assumptions

An assumption we have is that the FRD diagram will not be for public use but will be used inside the class. We can also assume the FRD document will guide the SQL ERD creation.

### Constraints

For the FRD our group has to have everything finished before the end of Friday for time for the Quality Manager to review the FRD and the project qualifications. If this is not done, it delays the Quality Manager and the date the Team Leader can turn in the project. The final due date for the FRD is Sunday night and if it’s not finished by then then the group will receive a zero.

## Document Overview

The Introduction explains the requirements of the FRD and the project requirements. The Methodology explains the functional requirements for outside readers who may not be able to understand the FRD without an explanation. The Functional Requirements is the requirements of the FRD to function.

# METHODOLOGY

The user requirements are different users and specific data and examples of data they may display from Instagram. The functional requirements are entities in the database system and attributes they either require or hold for future use. Entities are parts of a system that hold a relationship because they can work in tandem. Attributes is data the system holds on an entity. The hardware and software requirements are the relationships between the entities. They specify if the relationship is required or if it is optional. It’s the rules of the database system that specify how the data is shared, imputed, and used.

# FUNCTIONAL REQUIREMENTS

## User Requirements

**3 FOR GROUP FOR 2**

|  |  |  |  |
| --- | --- | --- | --- |
|  | MARKETING TEAM | CEO OF INSTA | TECH SUPPORT |
| CASE 1: | Display first name, last name, and email of customers description in the United States. | Display the name and address of an employee’s department. | Display first name and email of employees in each department. |
| CASE 2: | Display the description and the number of reviews for all post in a certain category. | Display name and addresses for all employees working remote. | Display the customer first name and email for customers who received account help in the last 12 hours. |
| CASE 3: | Display the comments and likes from reviews from locations in the United States. | Display department name and phone number for tech support. | Display post type, and date for reported post submitted from a customer email. |

## Functional Requirements

|  |  |
| --- | --- |
| ENTITY | ATTRIBUTES – REQUIRED **(R),** NULL **(N)** |
| Customer | **(R)** First name, **(R)** Last name, **(R)** Password, **(R)** Email, **(R)** Address, **(R)** State |
| Department | **(R)** Name, **(R)** Address, **(R)** Phone number, **(R)** Email |
| Employee | **(R)** First name, **(R)** Last name, **(R)** Address, **(R)** Email, **(R)** Phone Number |
| Reviews | **(R)** Review Date, **(R)** Comments, **(R)** Likes |
| Posts | **(N)** Description, **(R)** Type, **(R)** Post Date, **(N)** Location |

Relations:

-A customer can have many posts, a post has one customer.

-A department has many employees; an employee has one department.

-An employee can check many posts, post can be checked by many employees.

-Customer can leaves many reviews, a review belongs to one customer.

-A post can have many reviews; a review can belong to one post.

## Hardware/Software Requirements

The hardware and software platforms needed to support the system are MySQL workbench and the MySQL server. MySQL workbench is where the ERD will be made which includes the entities and its attributes and the data will be stored for the server. The MySQL server is where we will manage the data by querying and populating the data that is stored, managed and retrieved.

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# Appendices

Organizational profile