SE 2217 Software Engineering Principles – Lab #10

Textual Analysis & CRC Cards

Textual analysis is a text based tool for recording customers' needs. Furthermore, it lets extracting key terms from a recorded passage, and transforming the terms to model elements or putting them into glossary to build a project-based dictionary.

Class-Responsibility Collaborator (CRC) card visualize classes in card-like presentation. Each CRC card contains information like the description of class, its attributes and responsibility. A CRC card diagram is a holder of these cards.
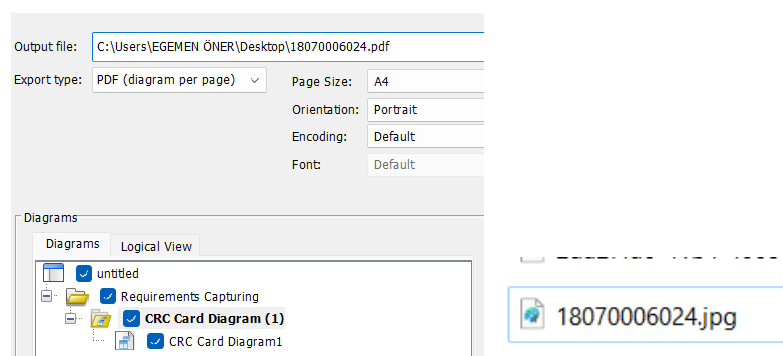
In this labwork, you are expected to generate CRC Cards and make textual analysis for the given problem.

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Online Strategy Game: Mysterious Islands ⚔ ♟

An online strategy game named Mysterious Islands has become very popular in recent days. In this game, players assemble their team and explore their own island, manage resources, raise an army, and trade or battle with other players. Everyone is a player, but there are exactly five different player types in a team: Explorer, Trader, Builder, Commander, and Treasure Hunter. Every player type has a name attribute, and each player should not break all of the the game rules. Explorer is an expert in exploration and map expansion. This type of player has their own discovery point and resource gathering speed. Their mission is to add new regions to the map (with the help of Commander) and manage resources in the explored regions. Trader is a merchant who trades genius and master of diplomacy. Each trader has a trading skill level and diplomacy score. Their role is to form trade alliances, exchange resources with alliances, and manage diplomatic relations. They also collaborate with Explorer by receiving the newly discovered resources and making profit through trade. Trader also get money from Treasure Hunter and use it at exchanges. Builder is an engineer who strengthens the empire's infrastructure and builds defense systems. They have their own construction skill level and defense score. Builders construct and upgrade buildings and manage defense systems. Trader provides the materials the Builder needs through trade. Commander is an army commander who is a genius at strategy. This type of player is responsible for managing armies, developing war strategies, and attacking or defending islands. Also, their attributes are known as strategy skill level and victory score. Commander gains an advantage in defensive battles by using the defense systems created by the Builder. Treasure Hunter is a brave hunter who is searching for legendary treasures for the empire. They are searching & finding hidden treasures, and managing how to win special rewards. Each Treasure Hunter Player has a Treasure Finding Skill Level and Special Award Score.

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In line with this story, generate the necessary CRC cards and make a textual analysis with <u>actors-use cases.</u>

While exporting, please choose your export type as PDF (Diagram per page) to gather all your CRC Card work in a single document if you made them seperately. Then, take a screenshot of your **textual analysis.** Finally, name both of them as **YourStudentNumber.jpg/png/pdf** and upload it under the related assignment.

CRC Cards as PDF – Textual Analysis Table as JPG/PNG