**Description of the features and diagrams**

Description of the first feature:

Find My Match

Many people today are struggling to find a suitable partner for a relationship. To address this, we developed the "Find My Match" feature, which allows users to find a potential match among their Facebook friends. To find your perfect match, you need to provide some details such as your gender preference (male or female), the age range you are willing to consider, and the cities where you'd like your match to be located. Based on these criteria, the system will search for suitable matches among your Facebook friends who are currently single.

Where the feature is implemented :

User Interface -

FindMyMatchForm

MyOptionalMatchesForm

SelectedMatchForm

Logic and Algorithms -

IMatchStrategy (an interface for matching strategies)

FilterByGenderStrategy (filtering matches by gender)

FilterByCitiesStrategy (filtering matches by cities)

FindMyMatchLogic (the core logic for finding matches)

FindMyMatchFacade (facade for accessing and using the Find My Match feature)

Note :

Please note that Facebook API permissions may not allow access to a user's list of friends. Therefore, this feature description assumes that there is access to the user's list of friends, but in practice, it may not be possible due to API limitations.

Description of the second feature:

Album Insights

This feature allows users to gain various insights about their photo albums and the ability to sort their albums in a way that suits them best. Users can sort their photo albums using three main options:

1. Sort by the number of photos in each album.
2. Sort by the number of comments each album received.
3. Sort by the most recent update date of each album.

Additionally, users can obtain information such as:

1. The number of photos uploaded to each album in each year
2. . The number of photos uploaded to each album in each month.

Where the feature is implemented:

User Interface:

- AlbumsForm

- AlbumStatisticsByMonthsForm

- AlbumStatisticsByYearsForm

Logic and Algorithms:

- AlbumStatisticsLogic (the core logic for album statistics)

- SortedAlbumsByDifferentCategoriesLogic (logic for sorting albums by different categories)

- AlbumStatisticsByMonthsLogic (logic for album statistics by months)

- AlbumStatisticsByYearsLogic (logic for album statistics by years)

Use Case Diagram:

תמונה שמכילה תרשים, טקסט, קו, עלילה

התיאור נוצר באופן אוטומטי

Sequence Diagrams:

Sorted albums and album statistics sequence diagram

תמונה שמכילה טקסט, תרשים, מקביל, כתב יד

התיאור נוצר באופן אוטומטי

Find my match sequence diagram

תמונה שמכילה טקסט, תרשים, תוכנית, מקביל

התיאור נוצר באופן אוטומטי

Class Diagram:

