**Design Patterns Homework 1**

**Features List:**

1. **Personal Statistics** – this feature allows you to see statistics about your behavior in Facebook, such as which categories you liked by calculating likes on pages, common liked pages with your friends and more.  
   This feature is **divided**, and can be found inside the Personal Statistics form, and inside the Friends form.
2. **“Add To Favorites”** – this feature allows you to add/remove posts in a favorites list. This feature also keeps track of the updated favorite posts lists by saving it to a file in JSON format. The file is being saved into the path “C:/temp/favorites.json”

Diagram

Description automatically generated**Use Case Diagram:**

**Sequence Diagram No.1 – Personal Statistics:**

Diagram

Description automatically generatedWe have Added **m\_ActiveForm** object to show the scenario where the previous form   
(if open) is destroyed.

Diagram

Description automatically generated**Sequence Diagram No.2 – Add To Favorites:**

Diagram

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