**PROJECT**

**Chat Application**

**GROUP: 1**

**Nguyễn Lê Tài Đức**

**Lê Bá Thịnh**

**Tô Cao Kim Ngân**

**Trần Minh Nhựt**

1. **Architecture Diagram**

- Independent deployment and scaling: Each feature can be deployed and scaled separately.

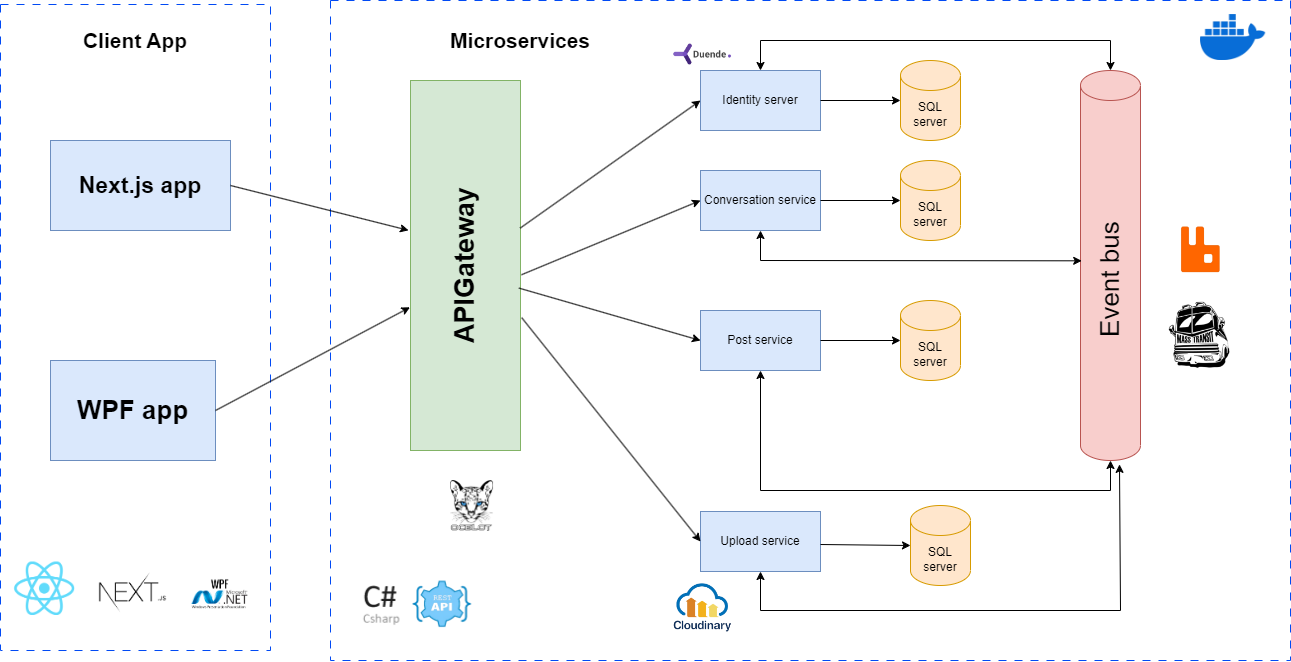
- Enhanced fault isolation: Failures in one service don't impact others.

- Technology diversity: Various languages for each component.

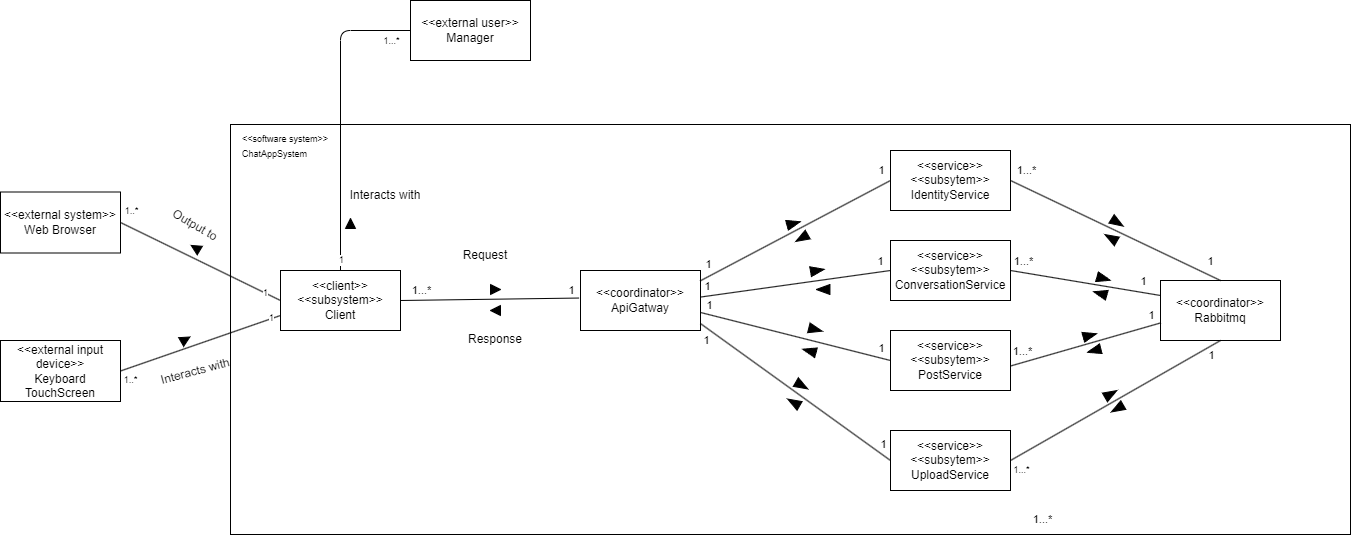
- Streamlined development and maintenance: Teams can work on individual services independently.

- Faster innovation: Enables quicker updates and new feature implementations.

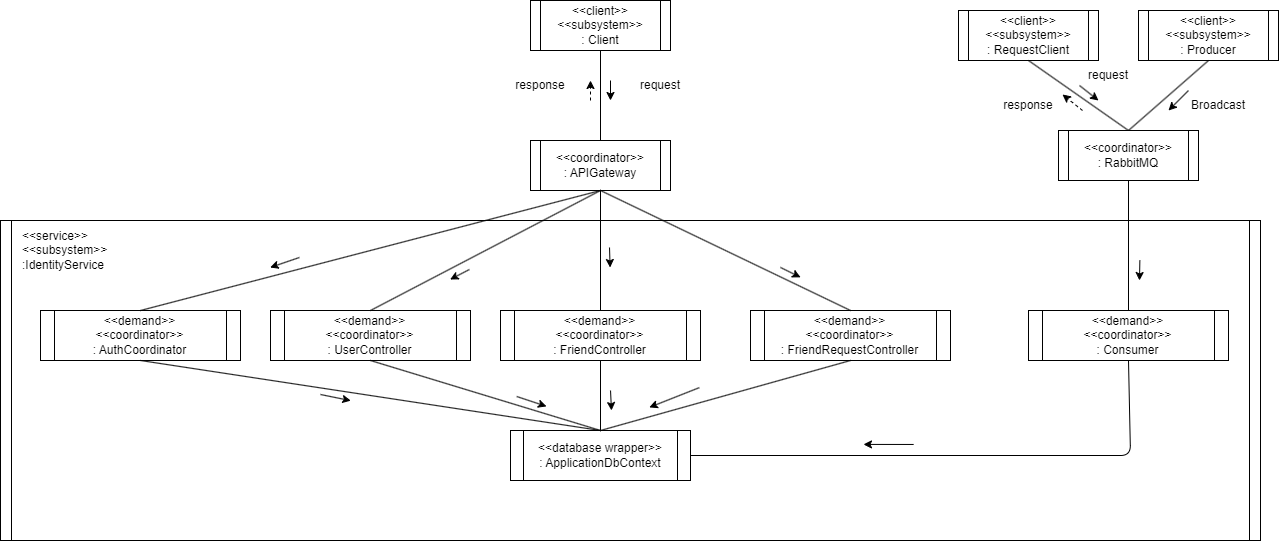
- Higher availability and reliability: Ensures a more resilient and stable application.



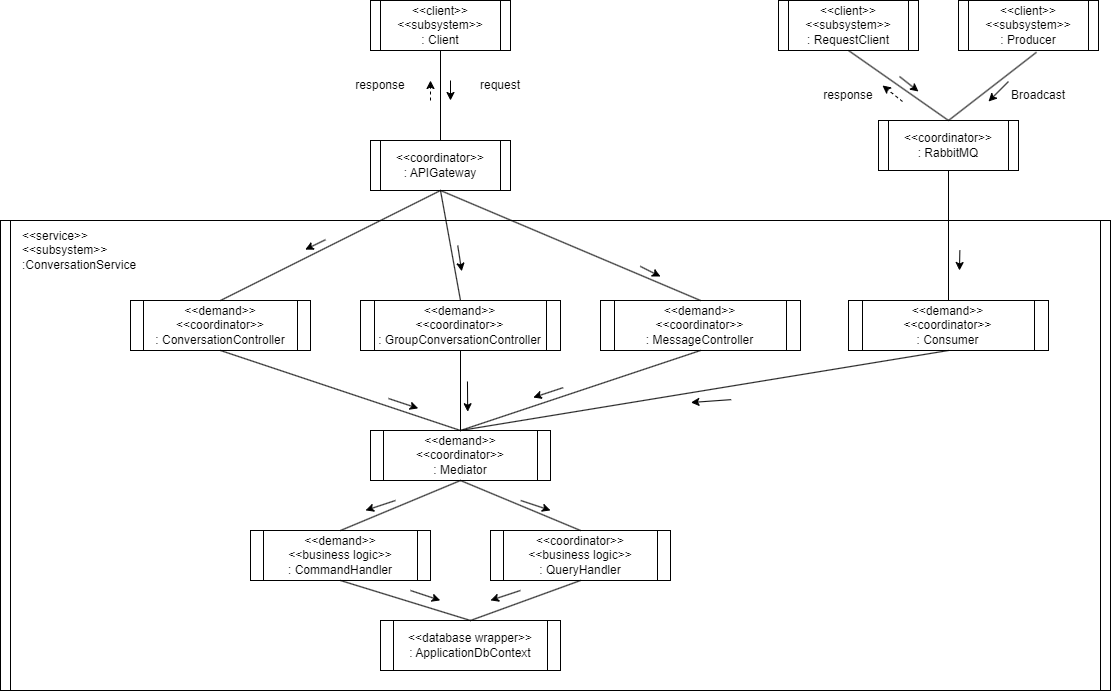
1. **Subsystem Diagram**
   1. **High Level**



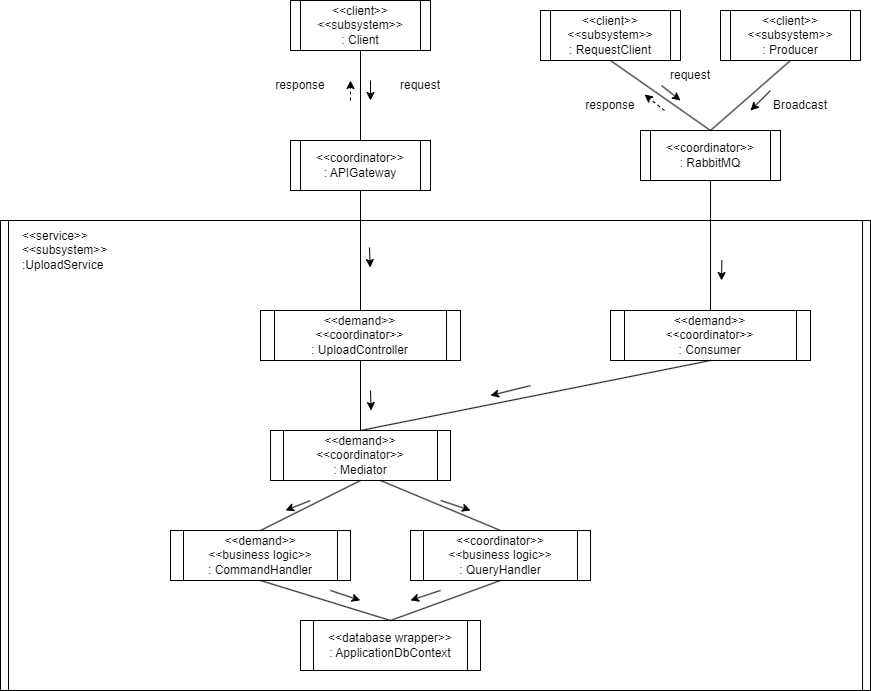
* 1. **Identity**



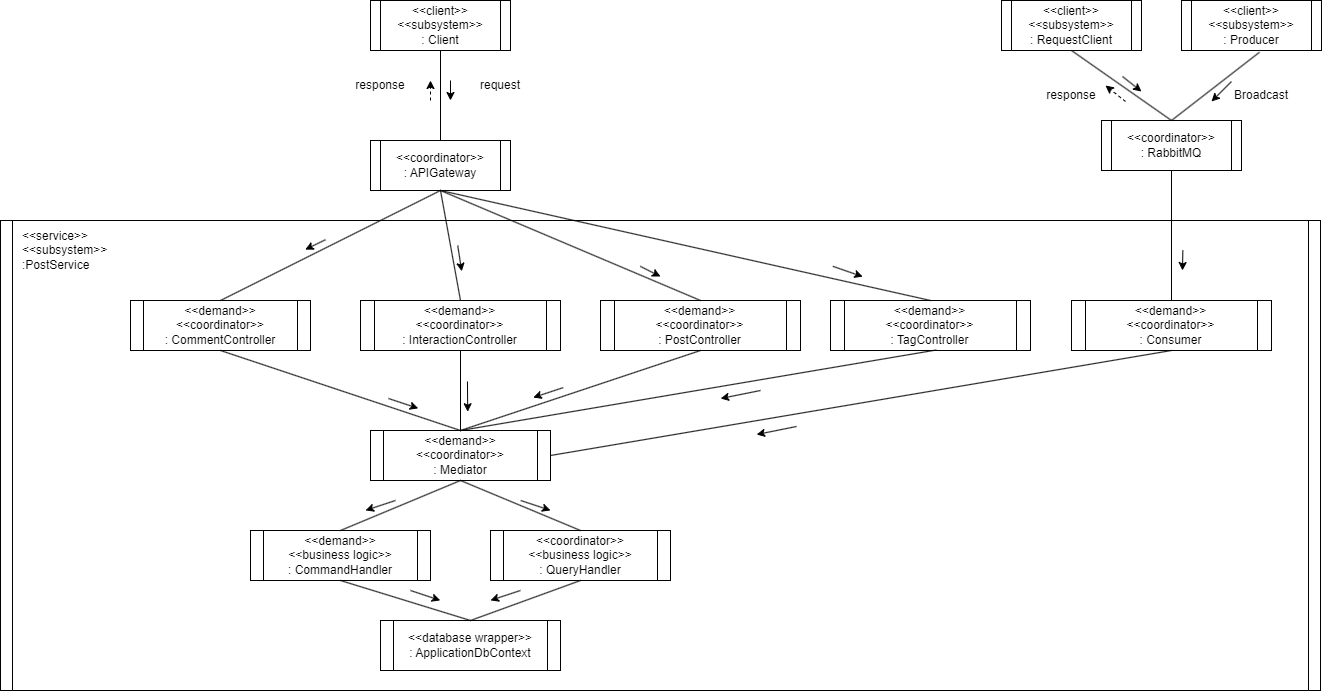
* 1. **Conversation**



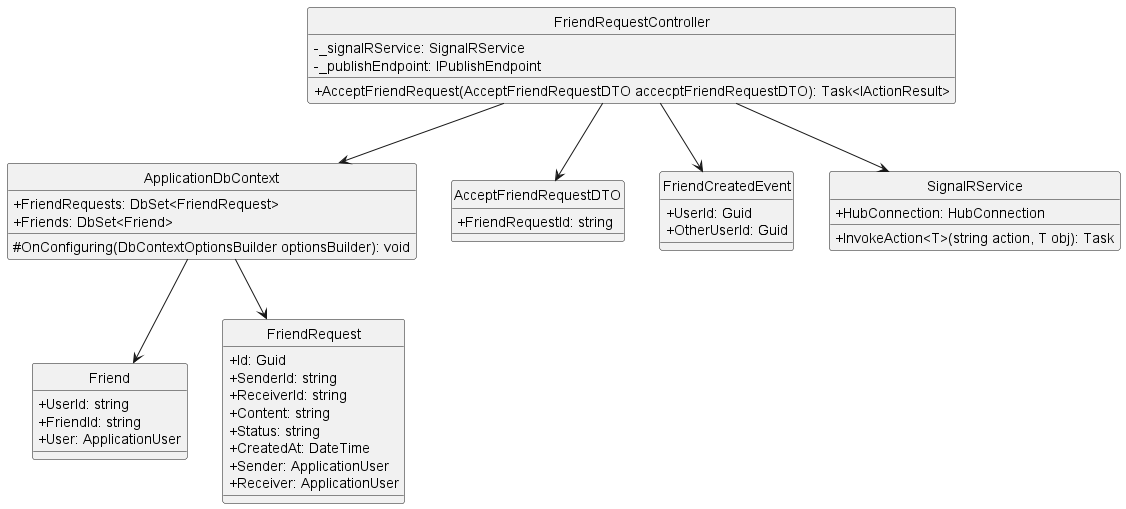
* 1. **Upload**



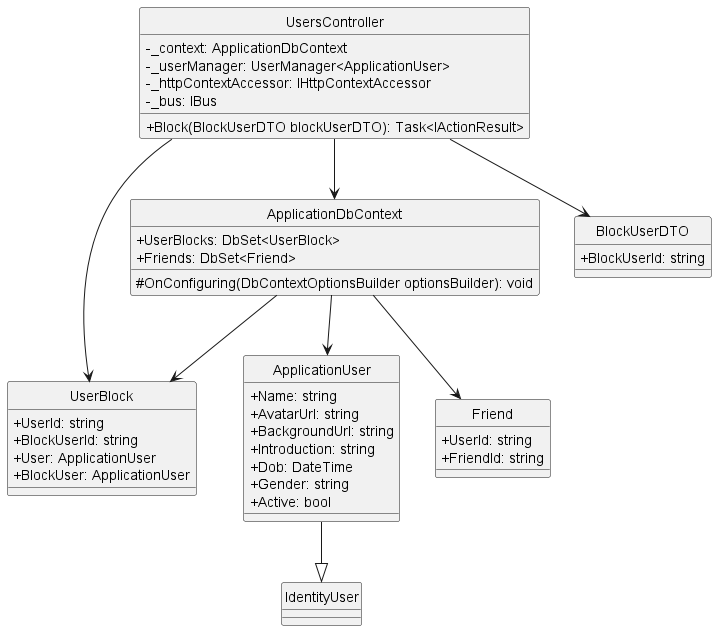
* 1. **Post**



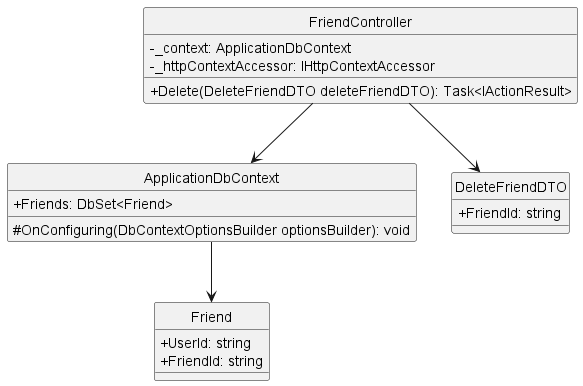
1. **Class Diagram**
   1. **Identity**
      1. **Accept Friend Request**



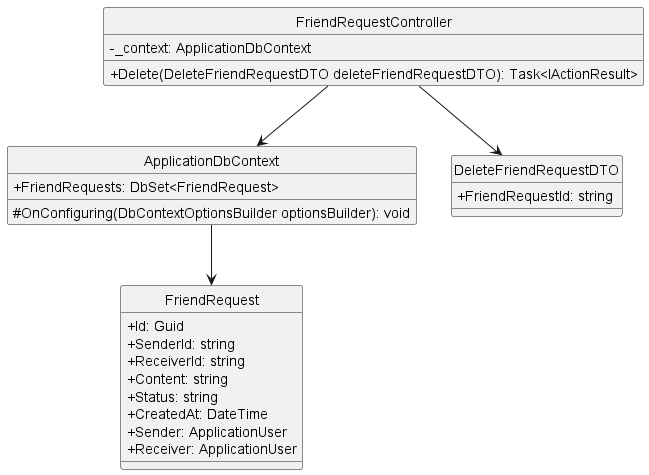
* + 1. **Block User**



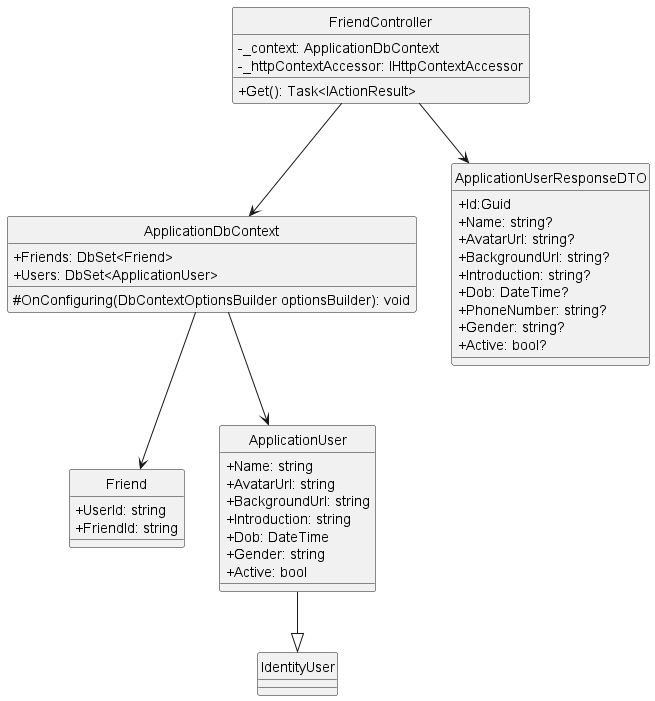
* + 1. **Delete Friend**



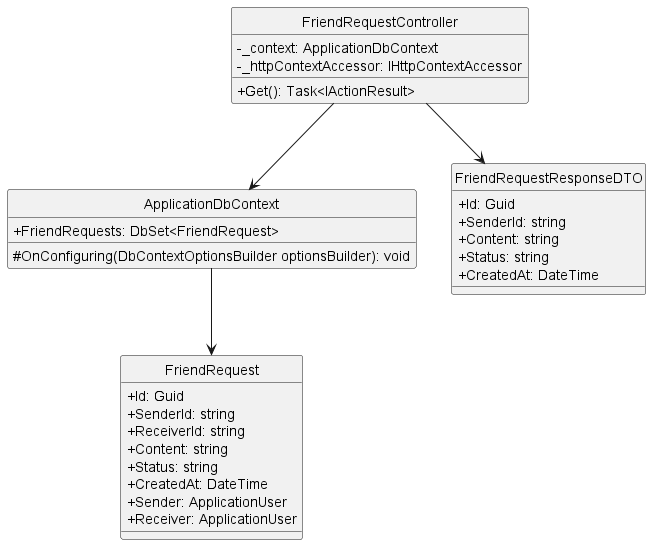
* + 1. **Delete Friend Request**



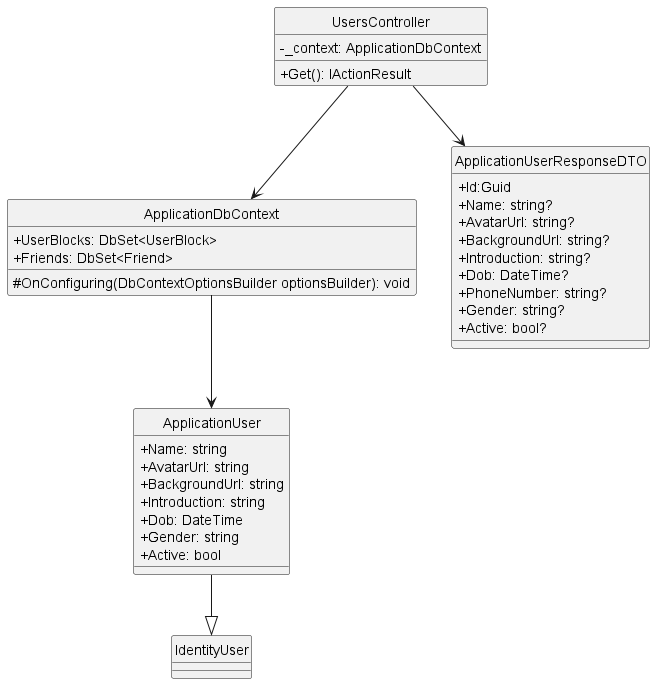
* + 1. **Get Friend List By User Id**



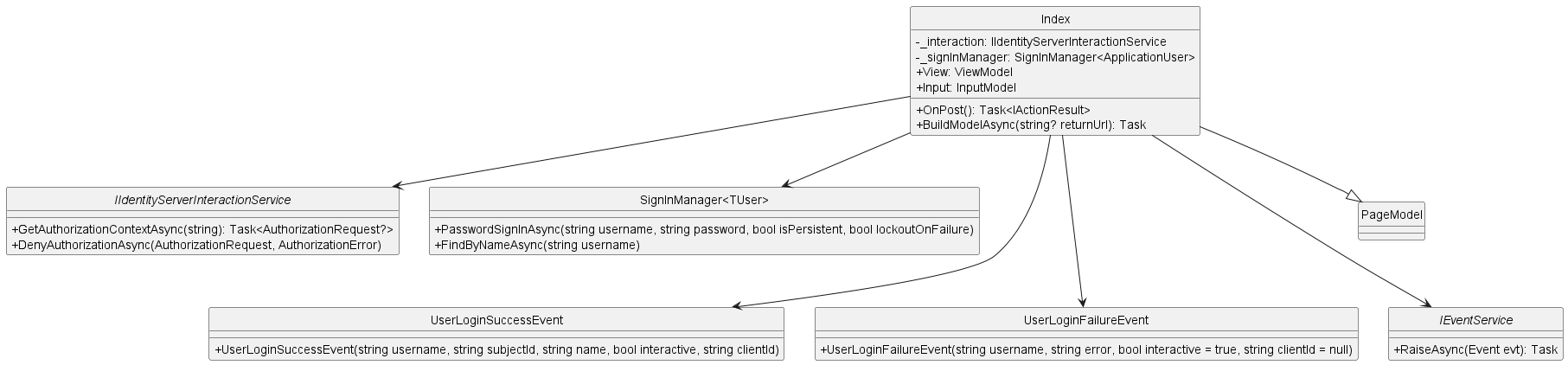
* + 1. **Get Friend Request List**



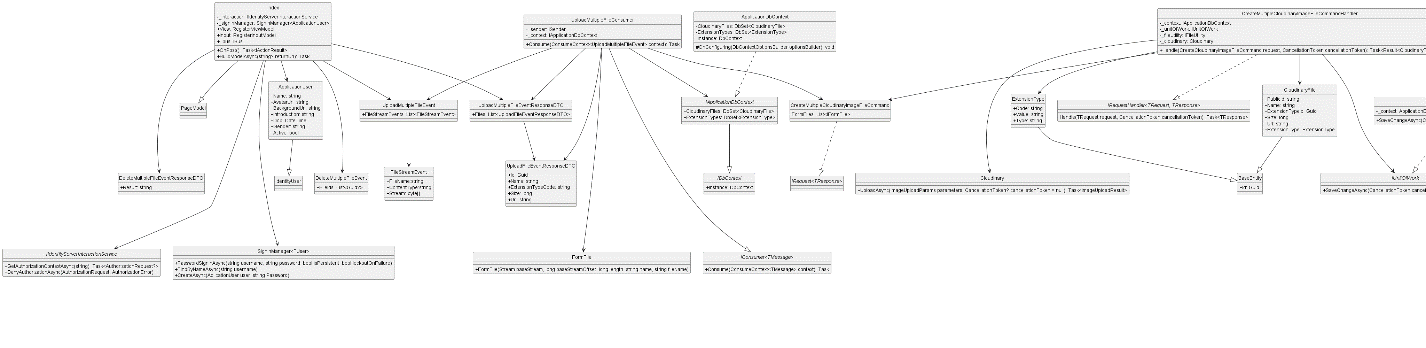
* + 1. **Get User By Id**



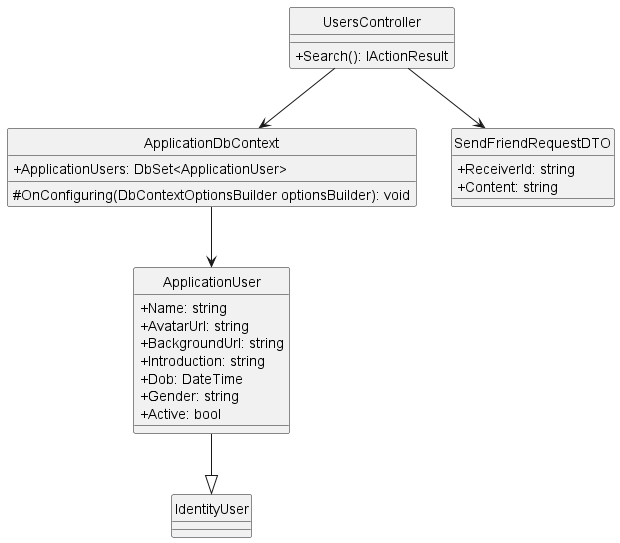
* + 1. **Login**



* + 1. **Register**



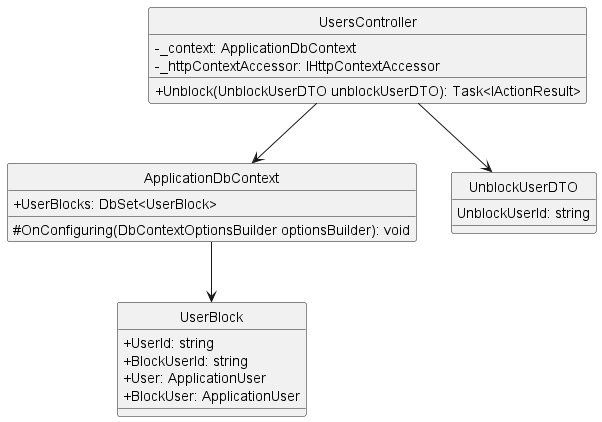
* + 1. **Search User**



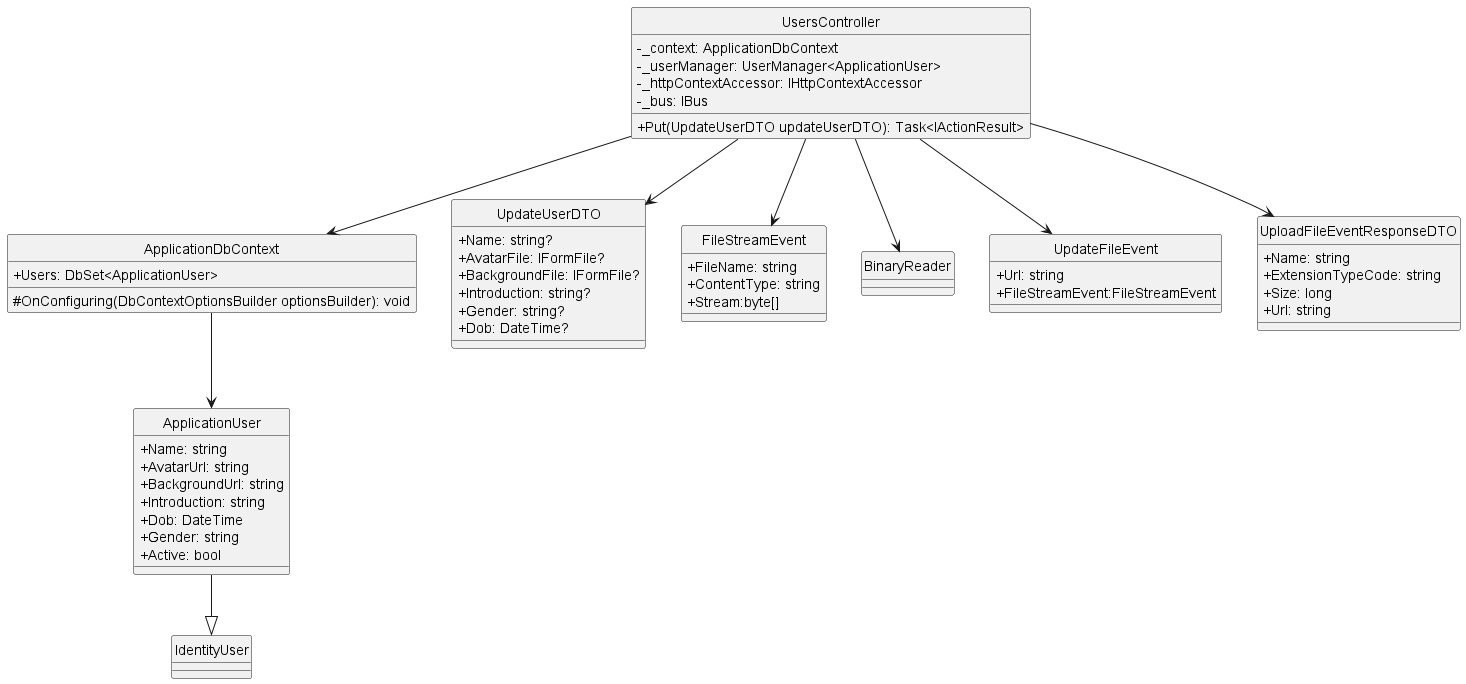
* + 1. **Send Friend Request**



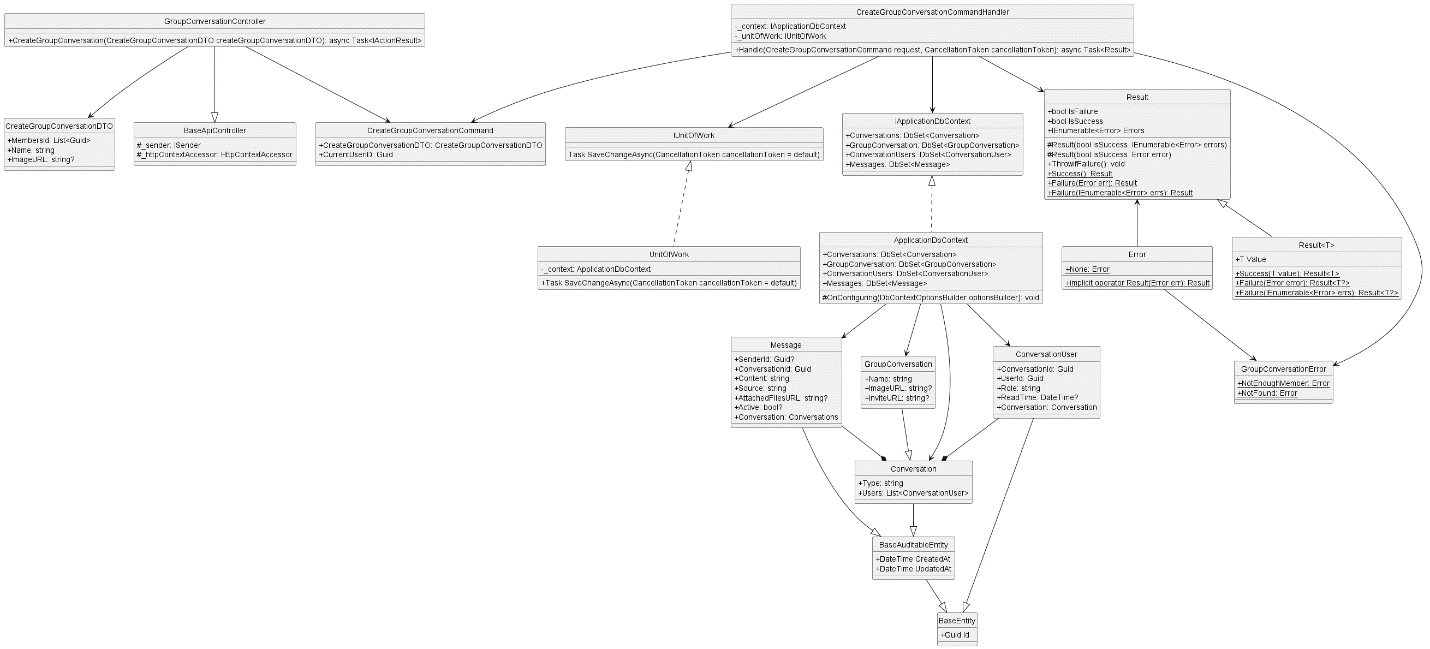
* + 1. **Unblock User**



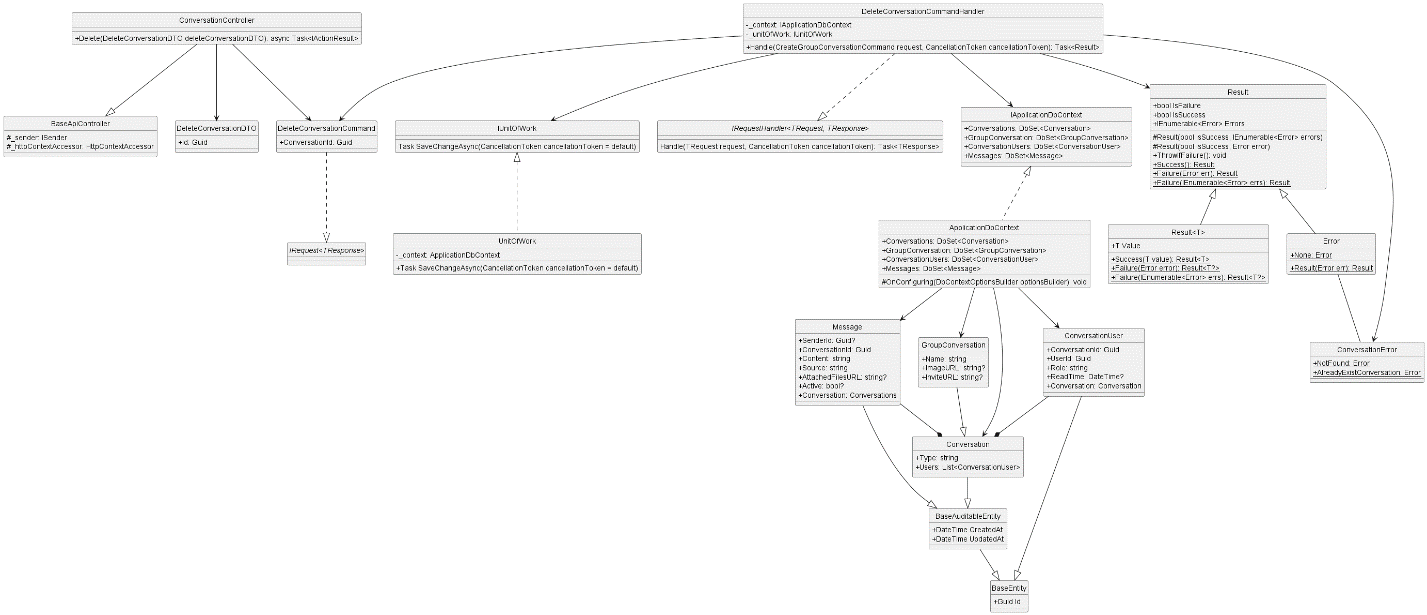
* + 1. **Update User**



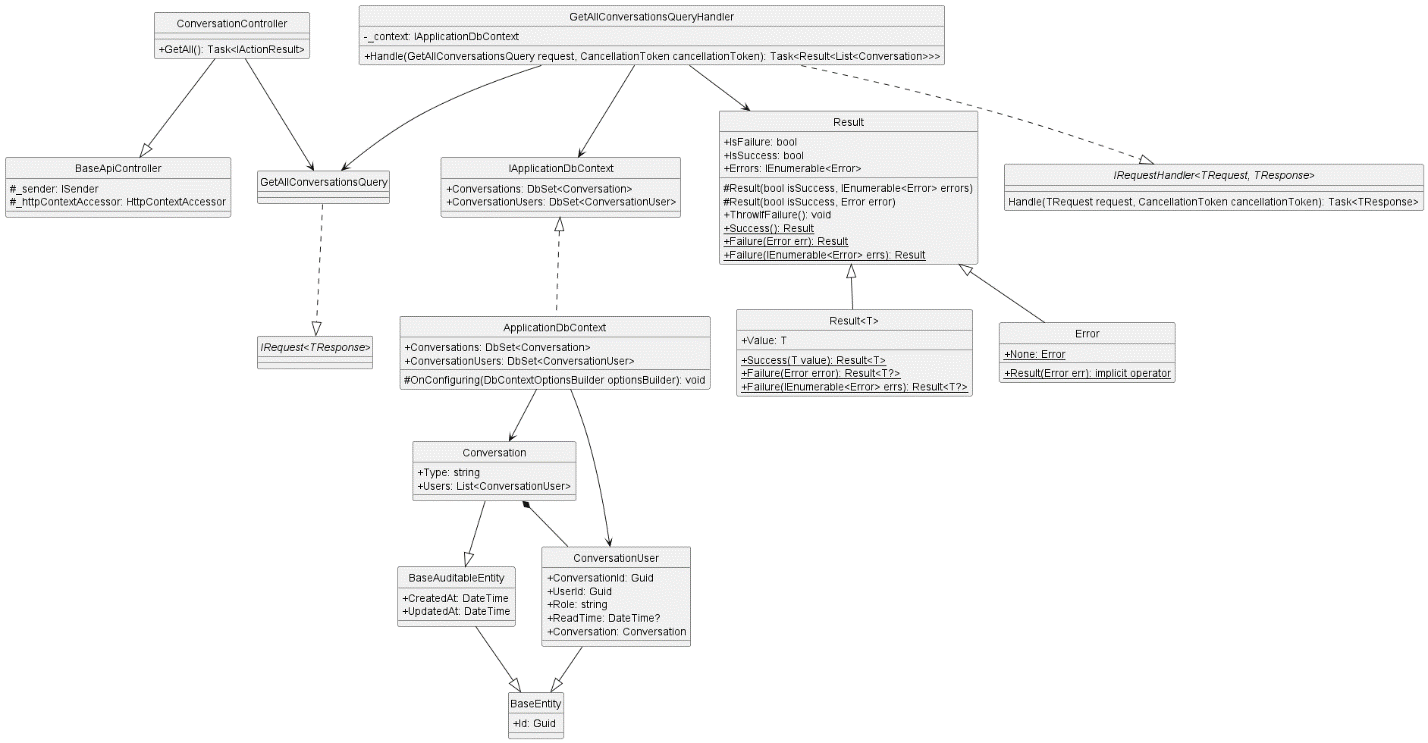
* 1. **Conversation**
     1. **Create Group Conversation**

****

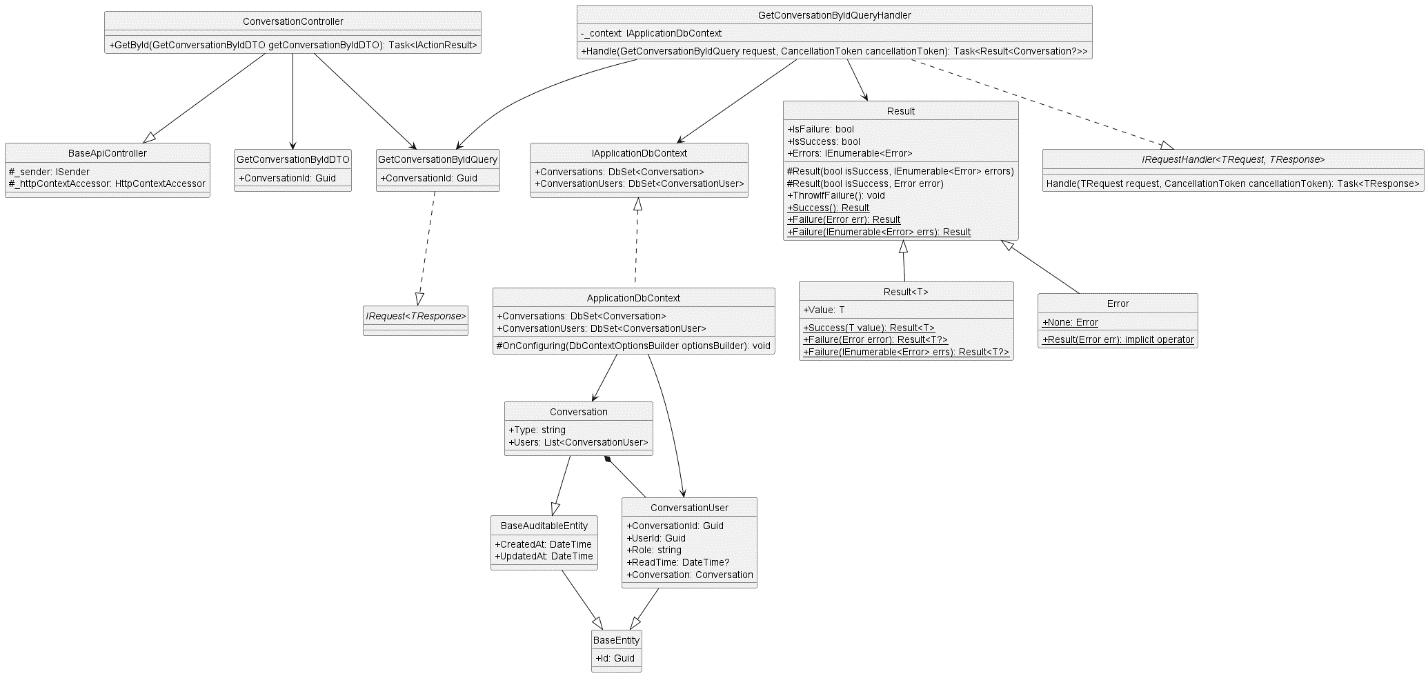
* + 1. **Delete Conversation**

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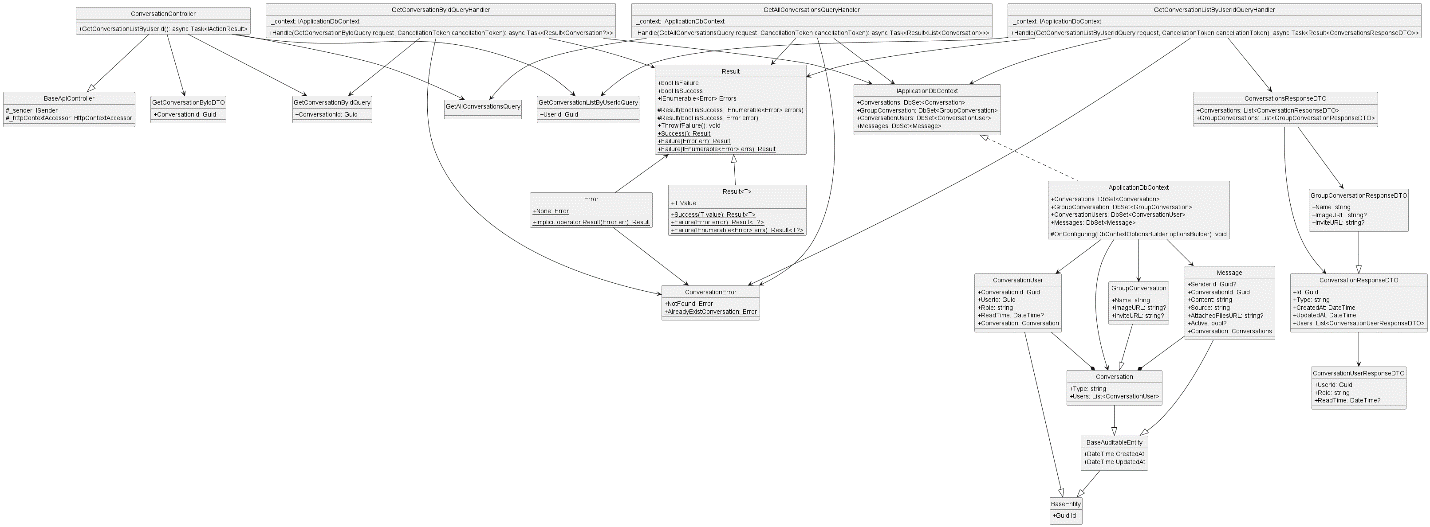
* + 1. **Get All**

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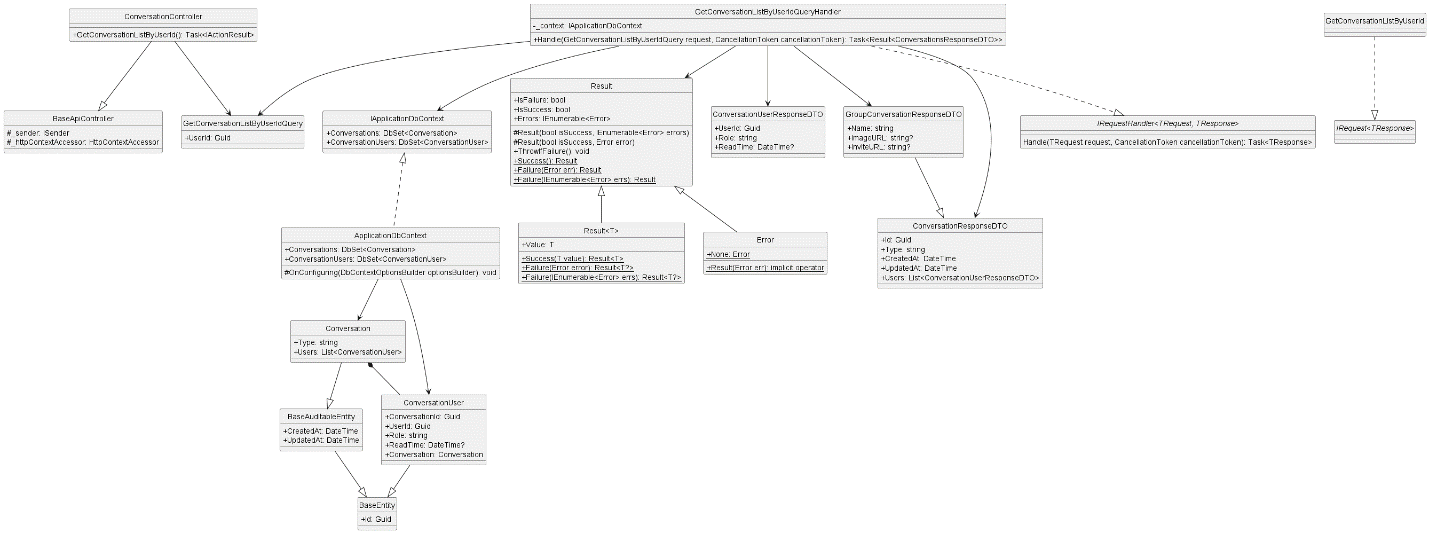
* + 1. **Get By Id**

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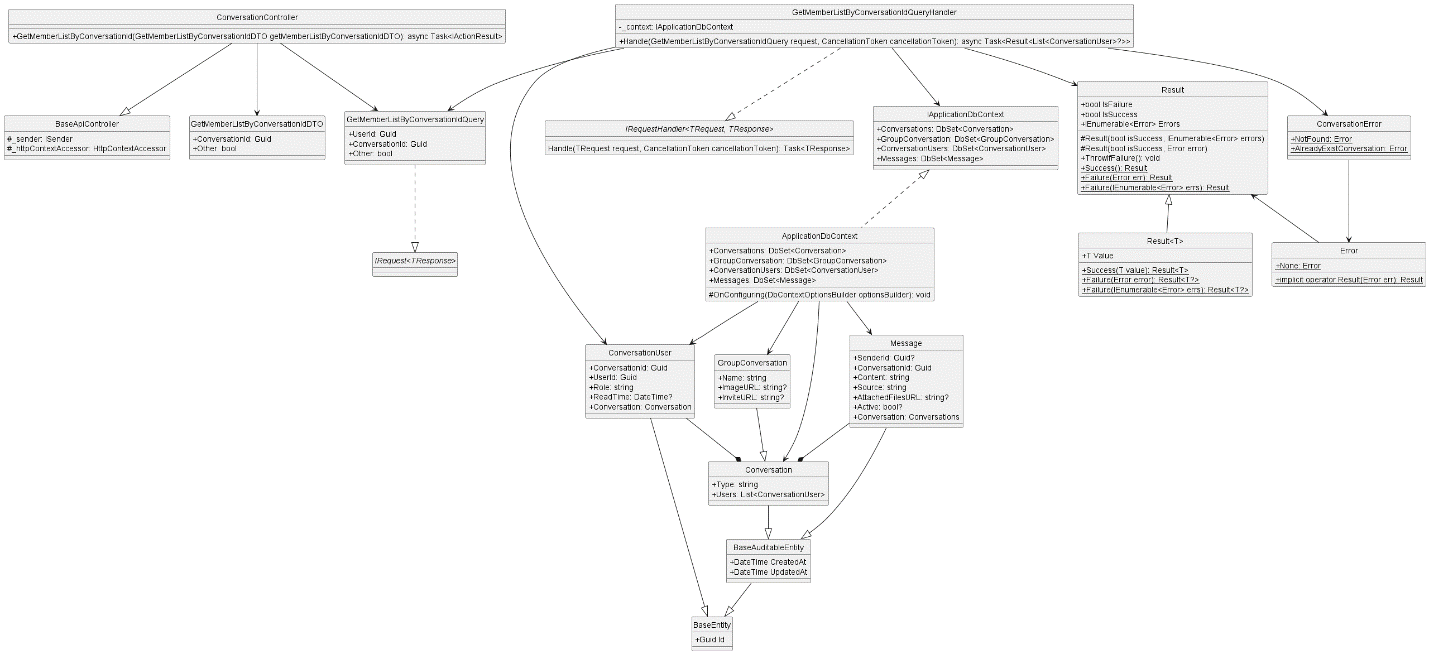
* + 1. **Get Conversation**

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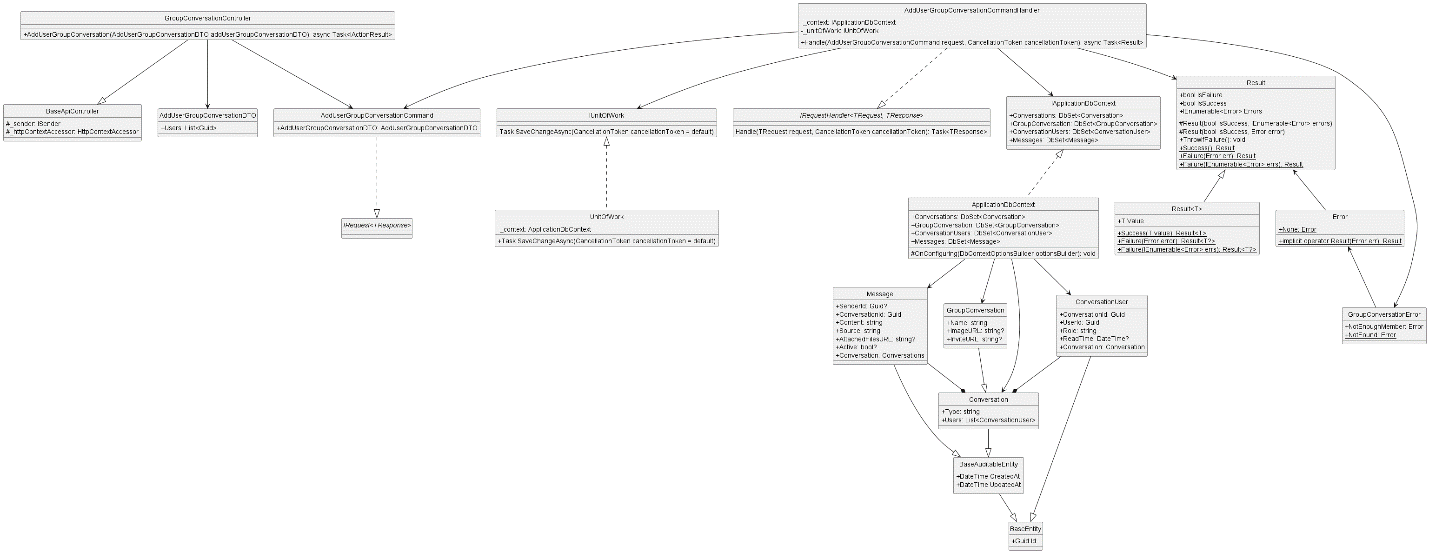
* + 1. **Get Conversation List By User Id**

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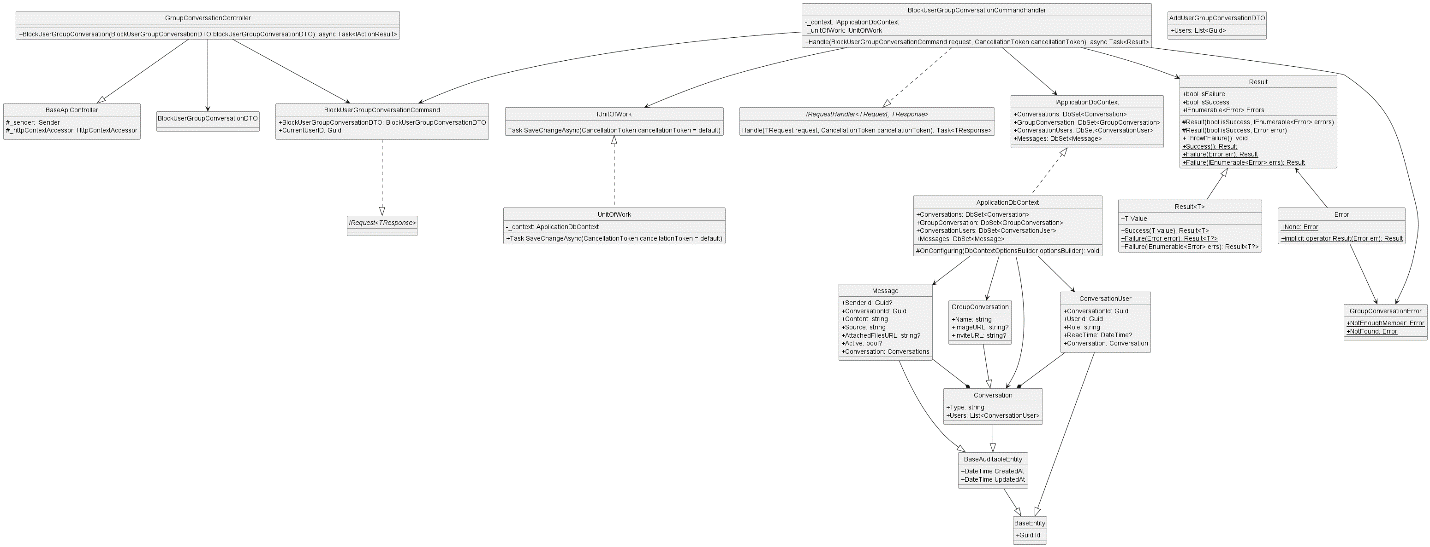
* + 1. **Get Member List By Conversation Id**

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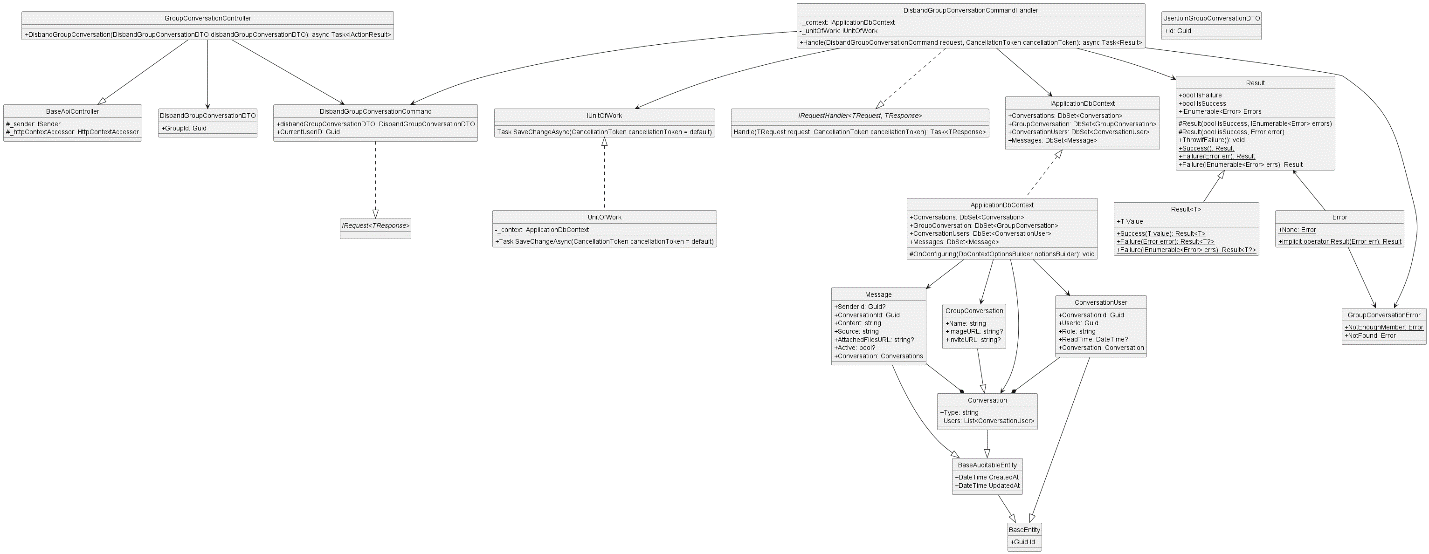
* + 1. **Group Add User**

****

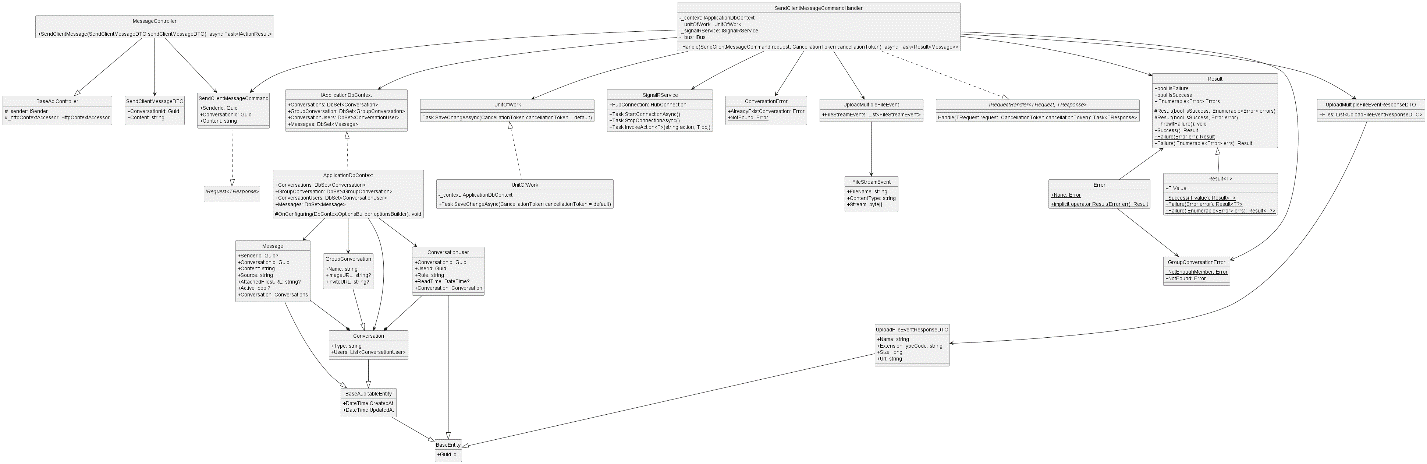
* + 1. **Group Block User**

****

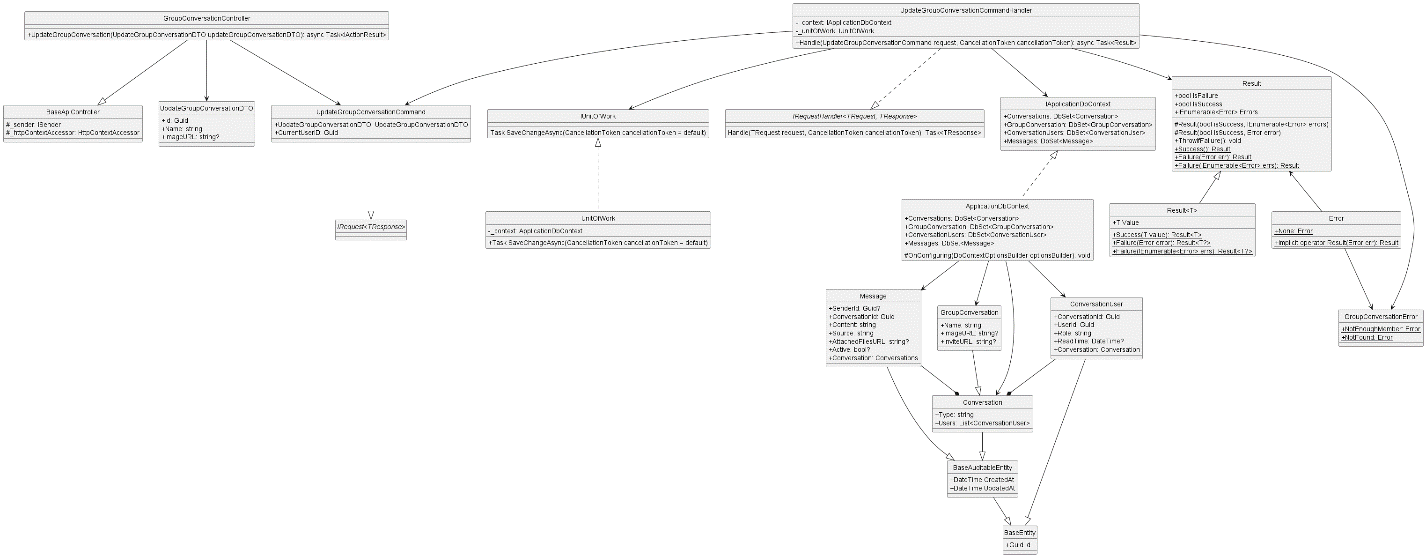
* + 1. **Group Disband**

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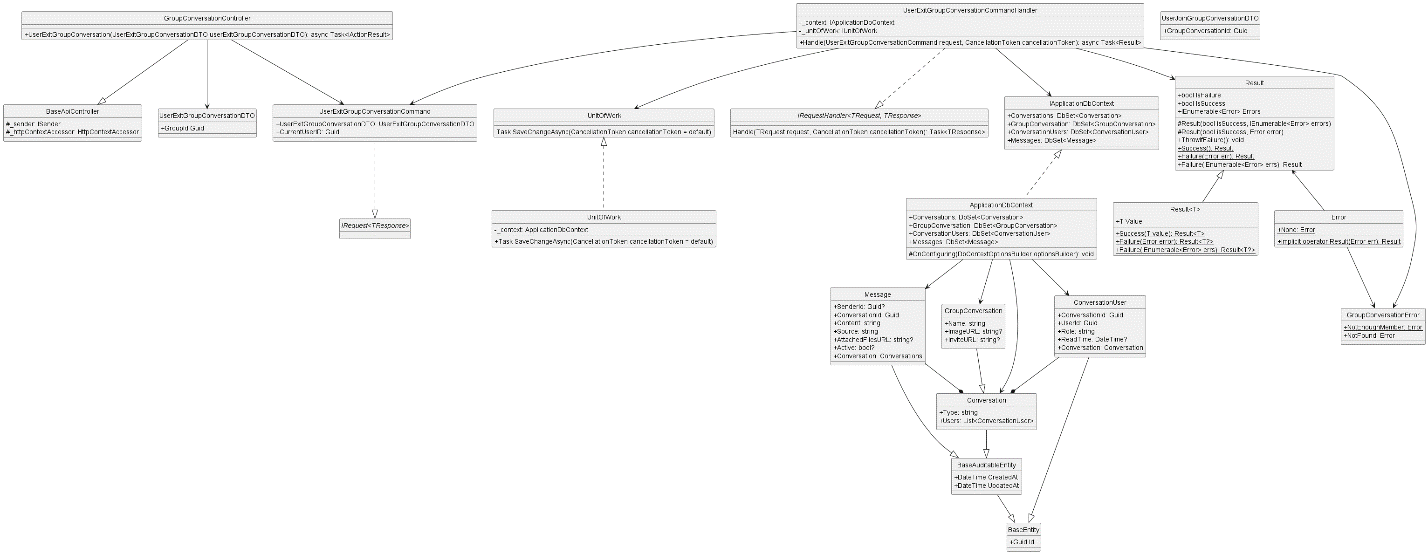
* + 1. **Send Client Message**

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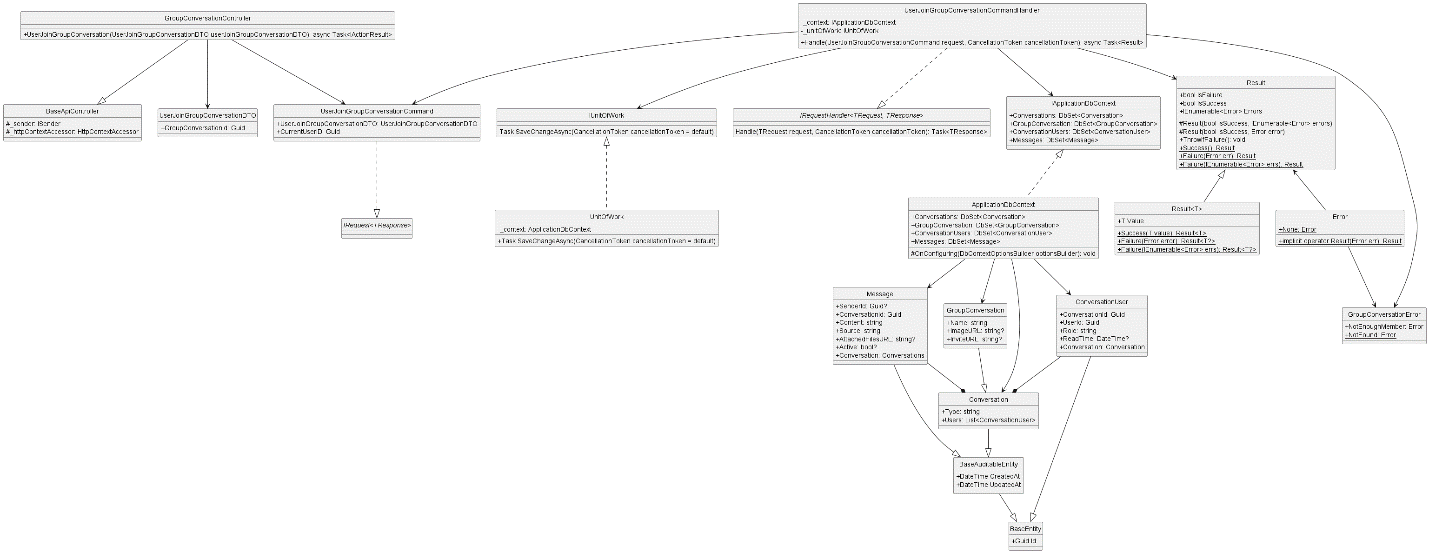
* + 1. **Update Group Conversation**

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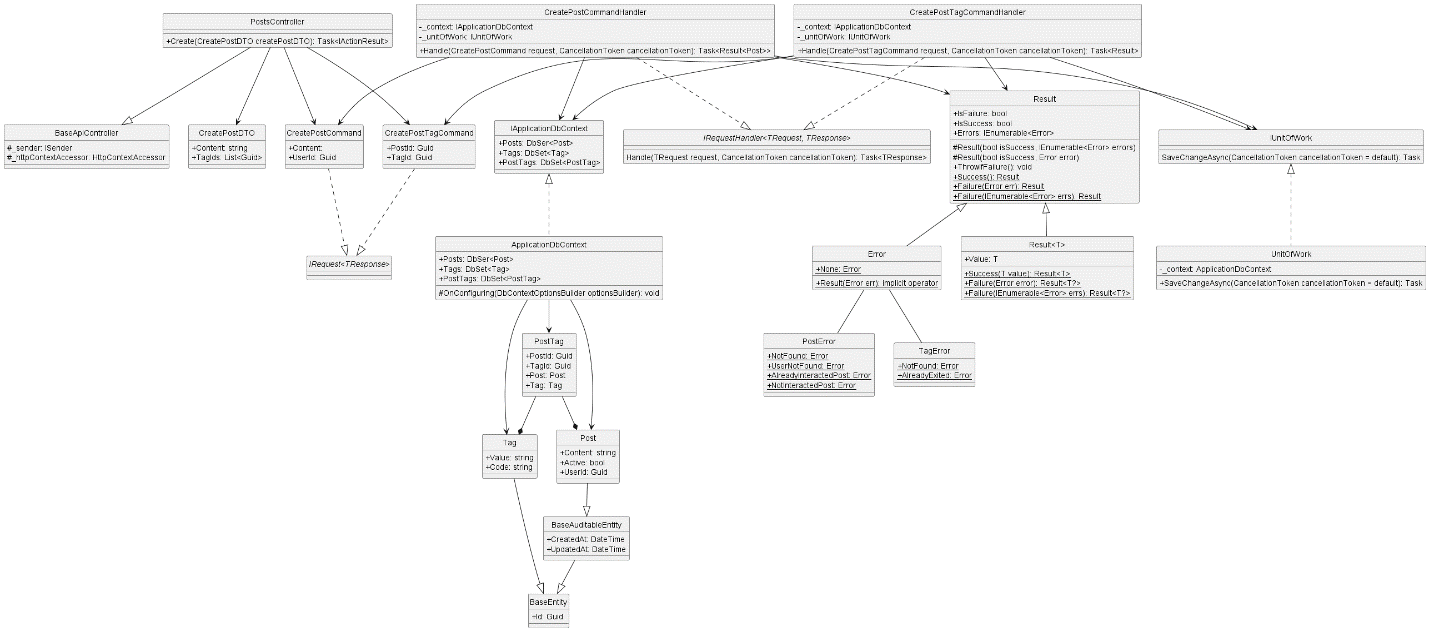
* + 1. **User Exit Group**

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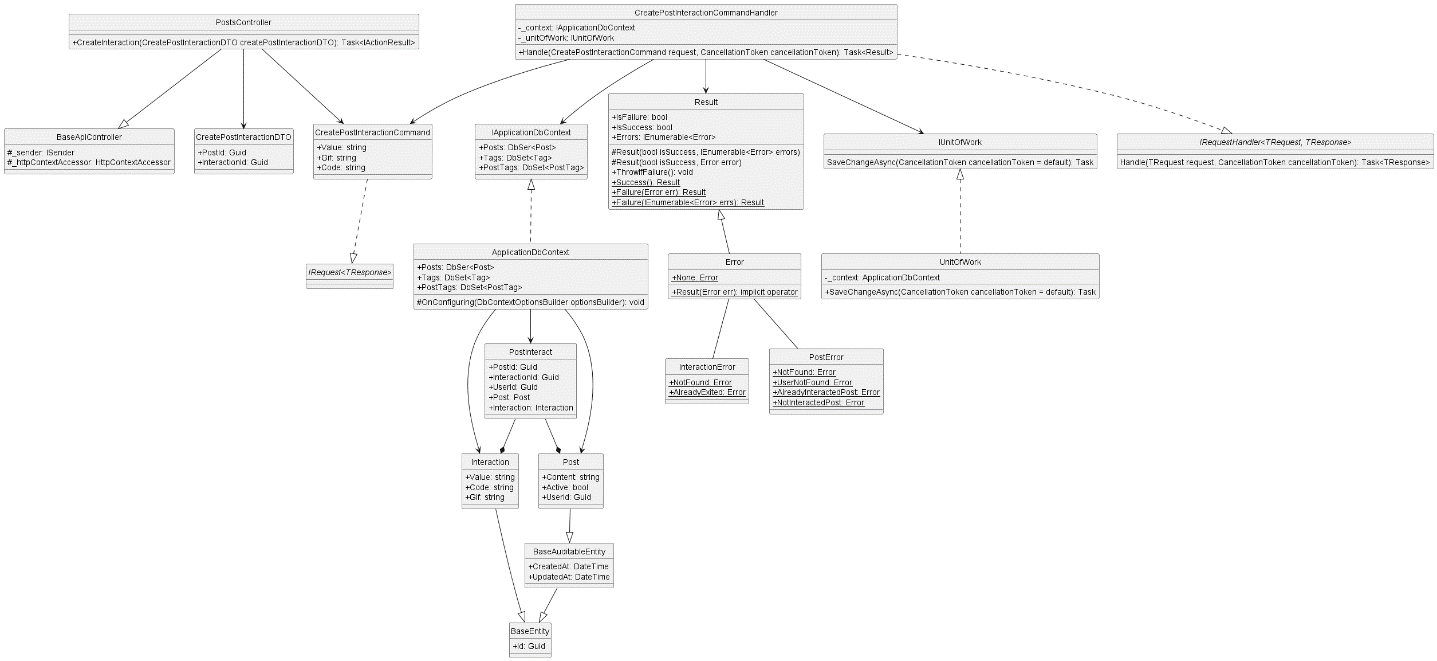
* + 1. **User Join Group**

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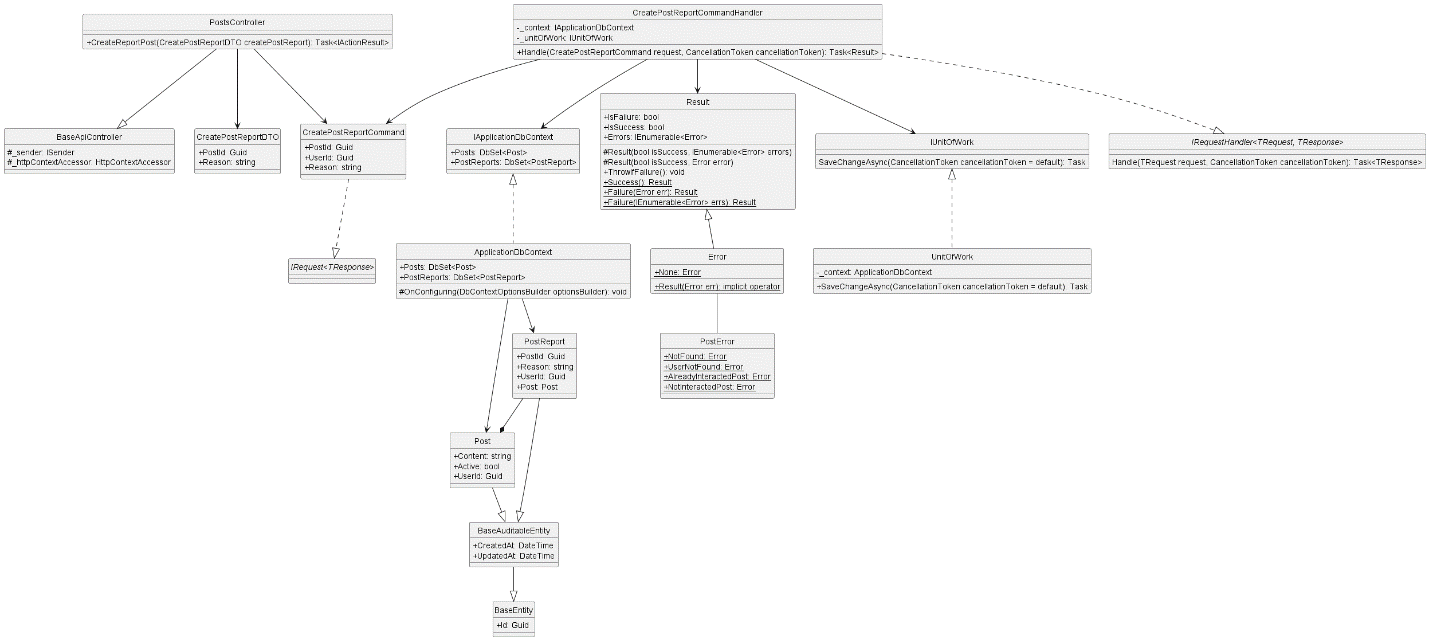
* 1. **Post**
     1. **Create Post**

****

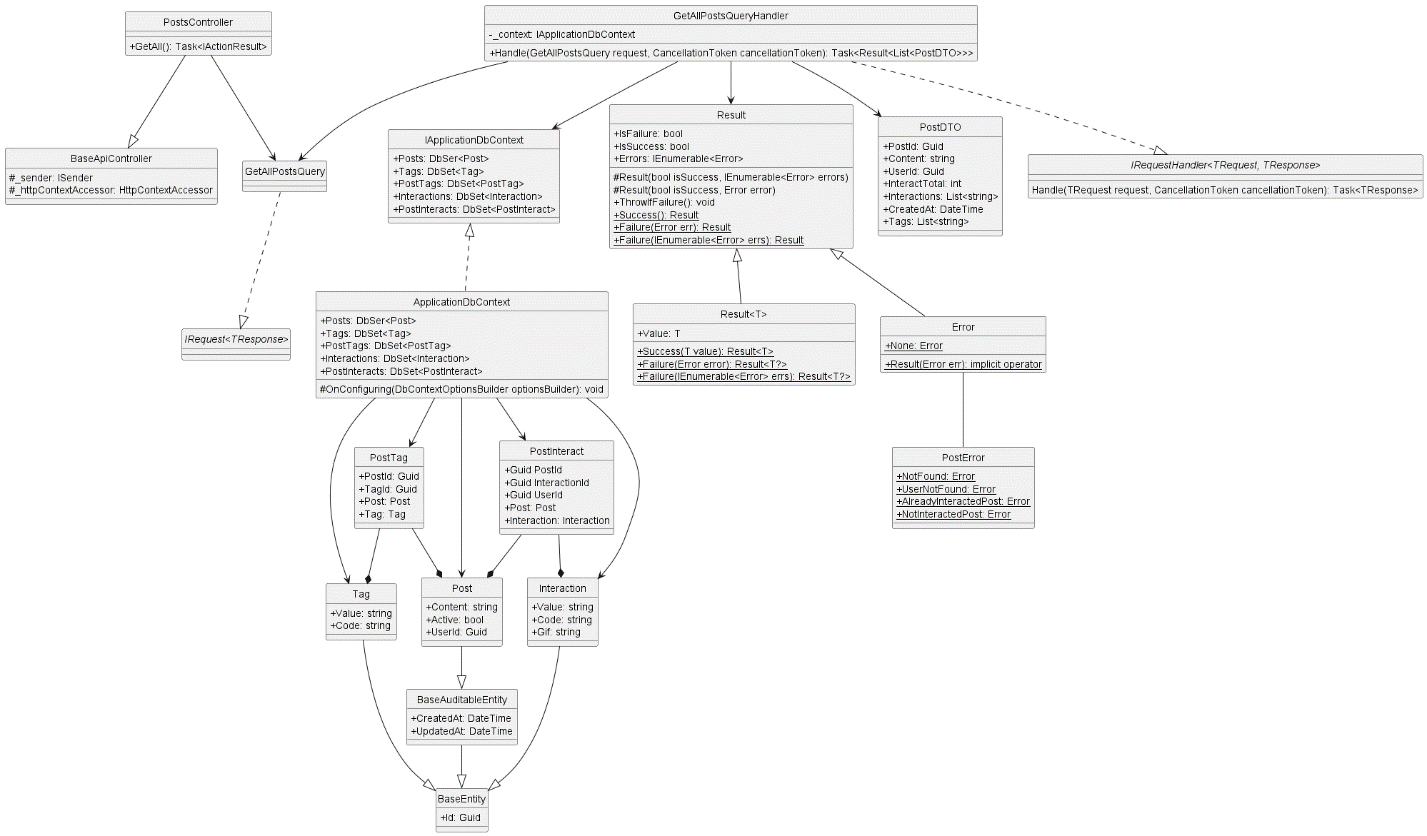
* + 1. **Create Post Interaction**

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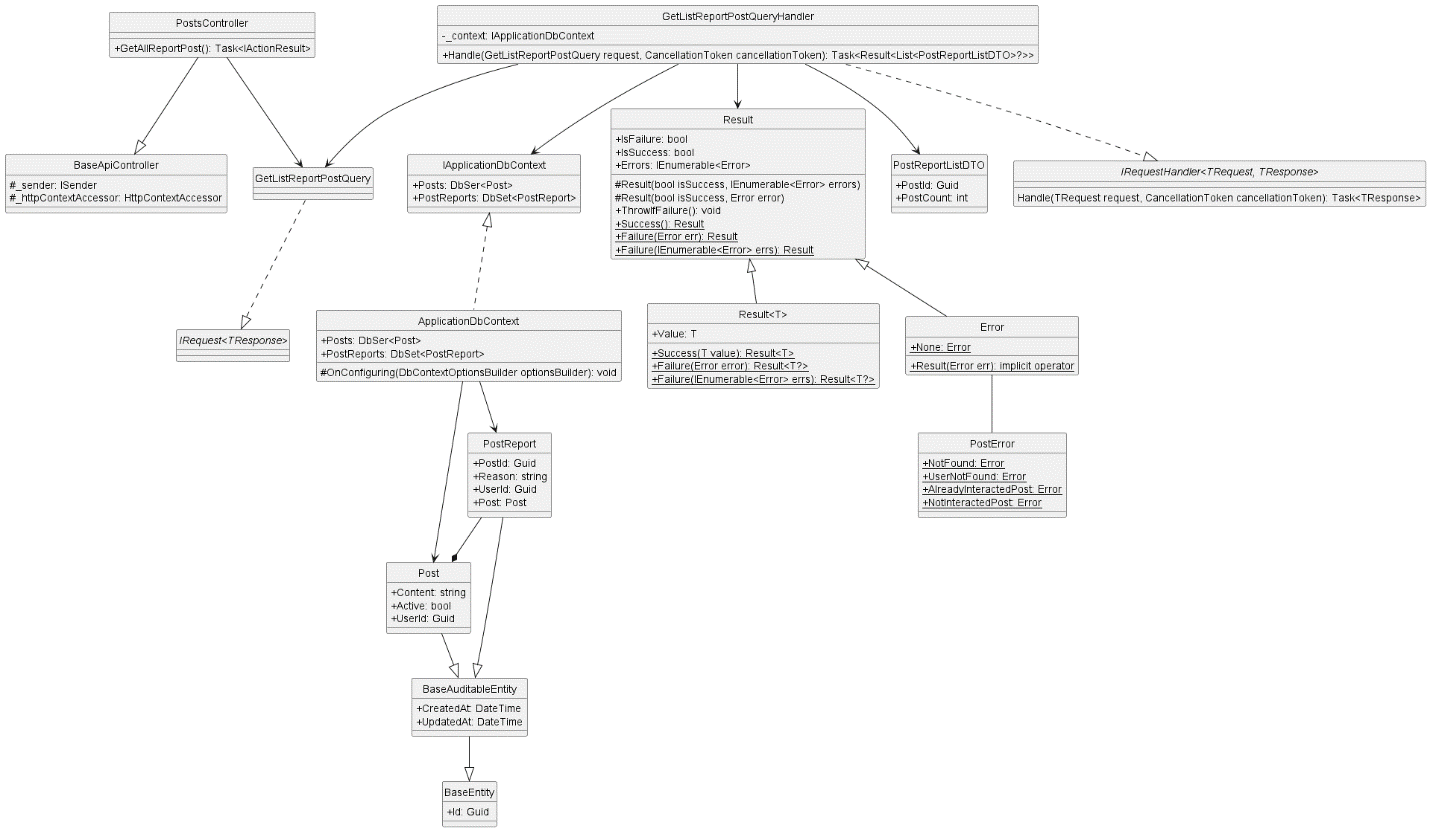
* + 1. **Create Report Post**

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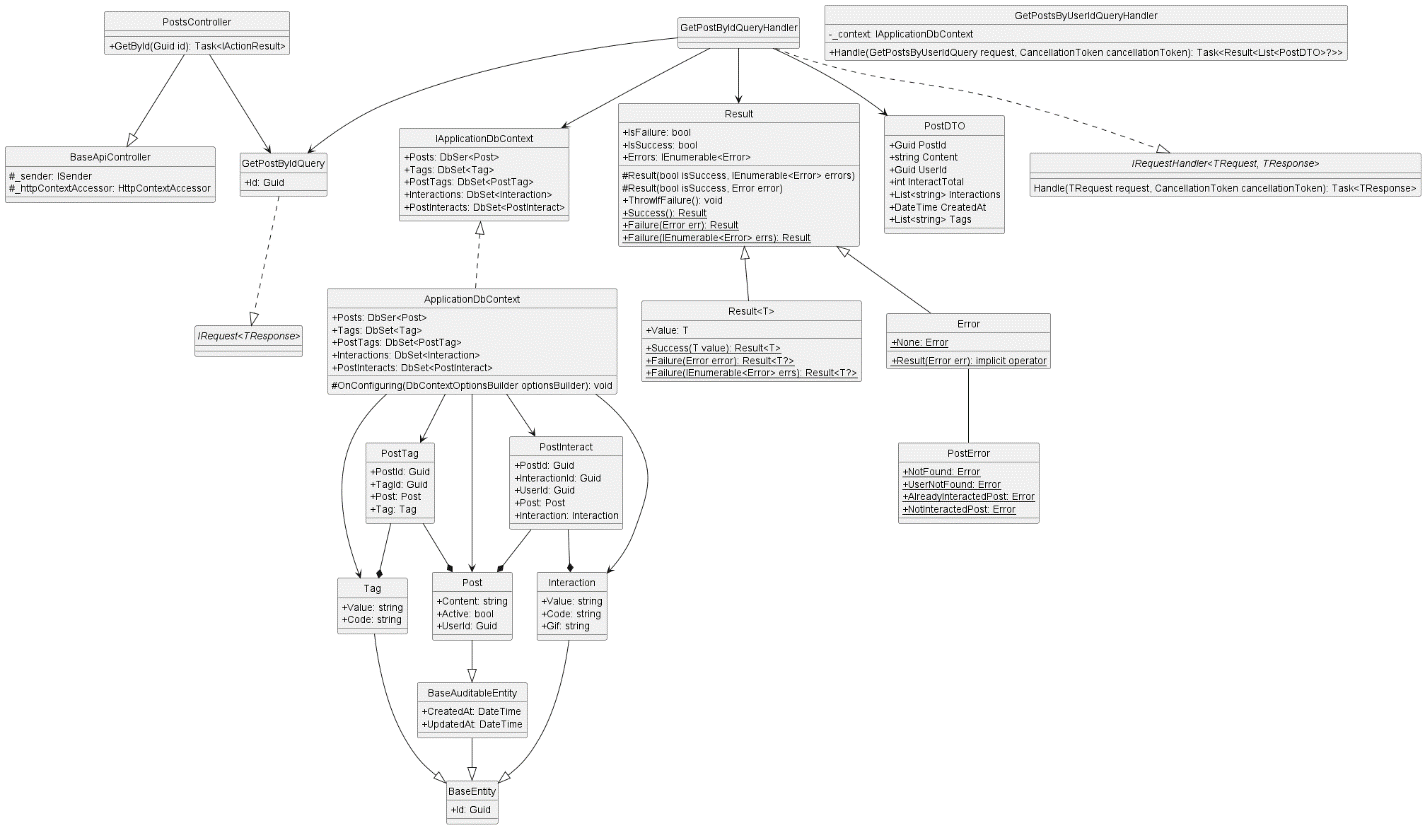
* + 1. **Get All Post**

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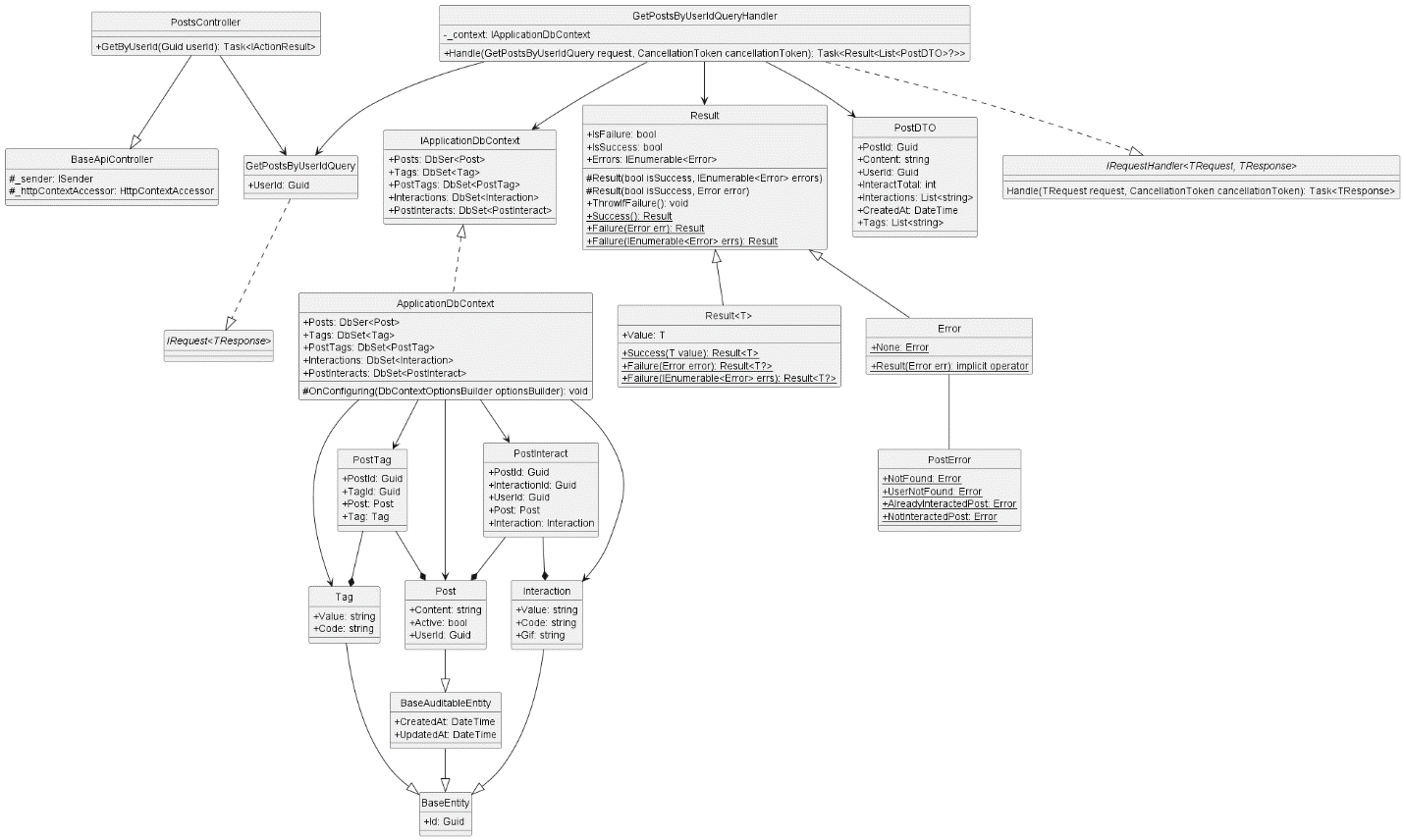
* + 1. **Get All Report Post**

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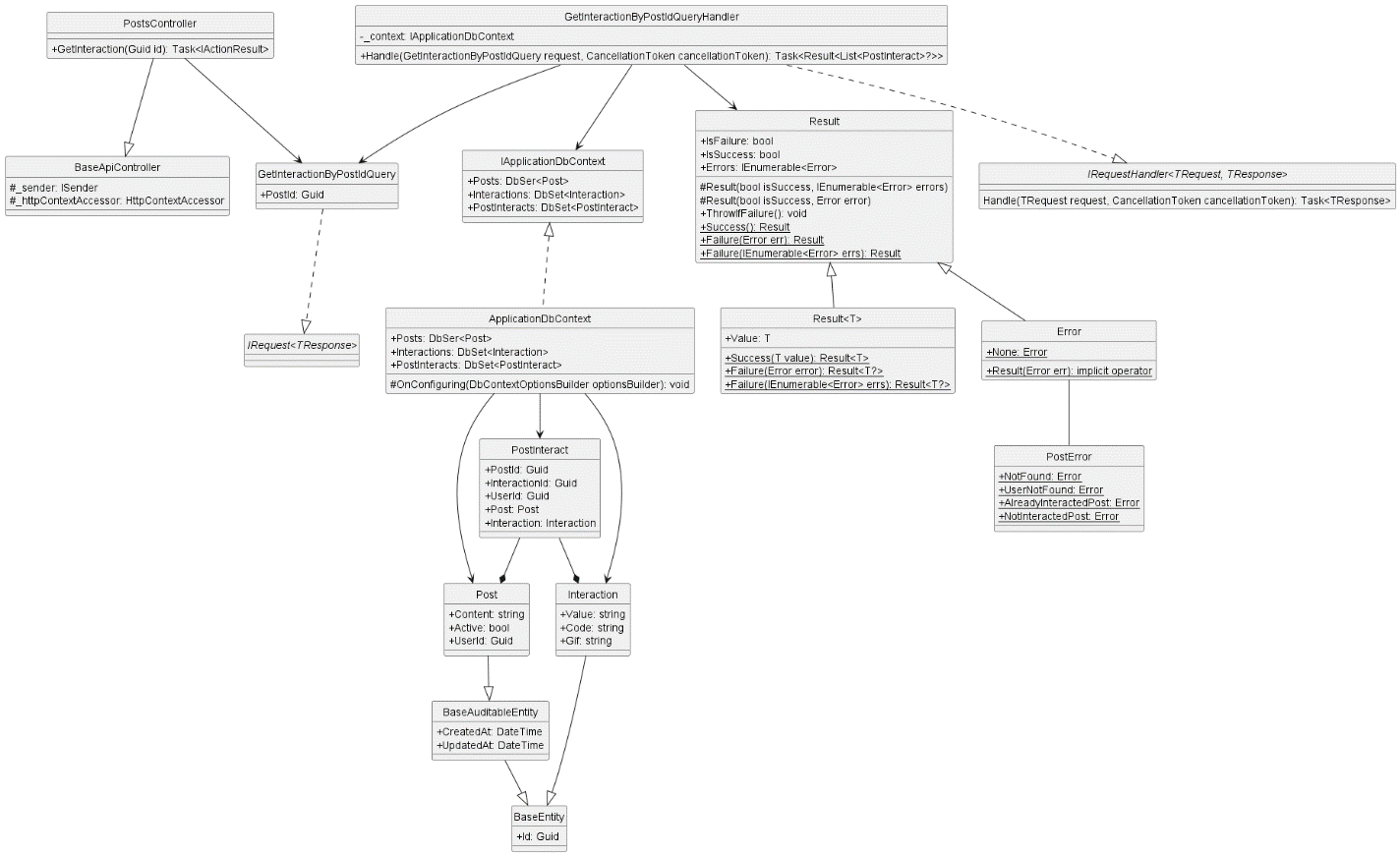
* + 1. **Get Post By Id**

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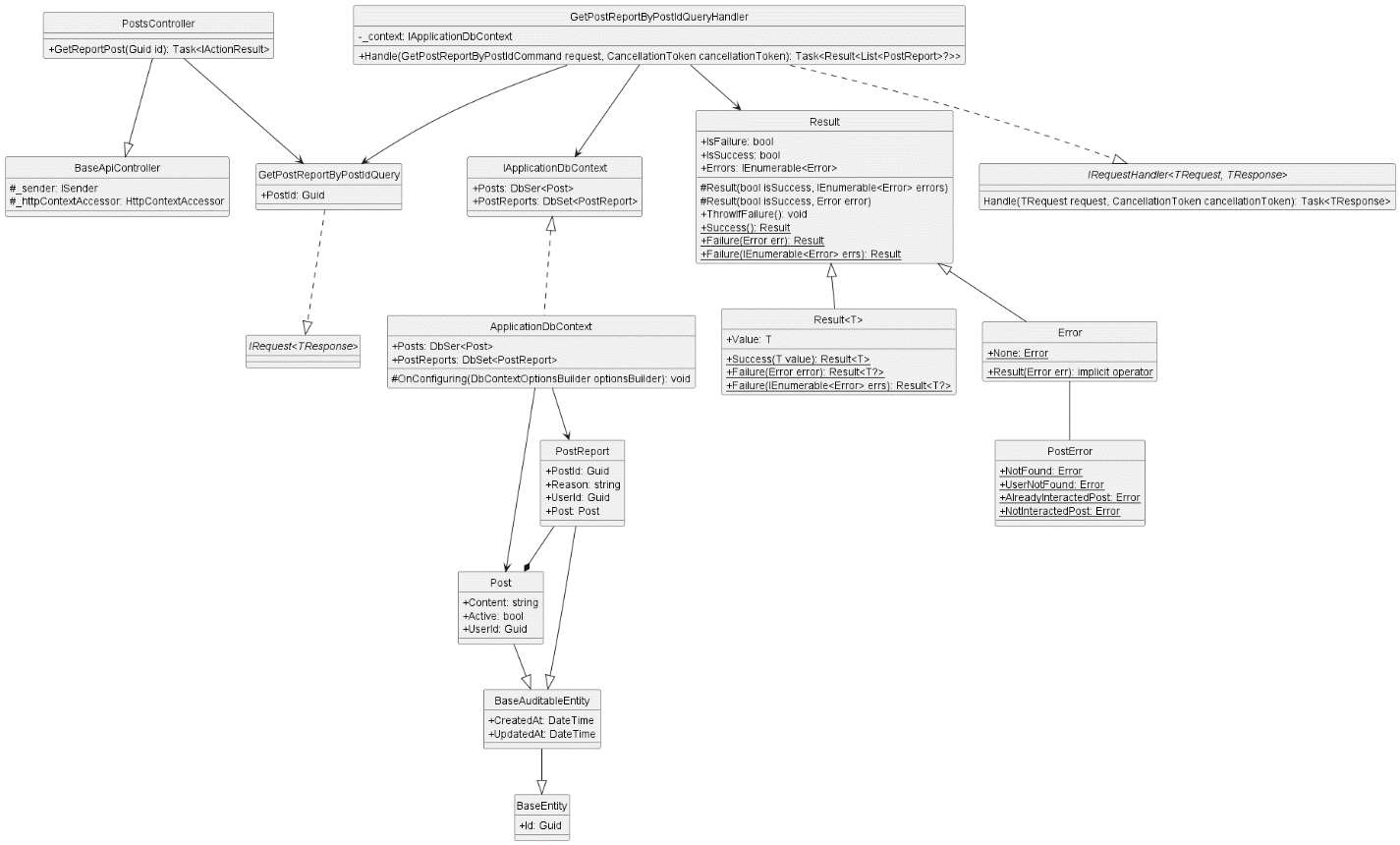
* + 1. **Get By User Id**

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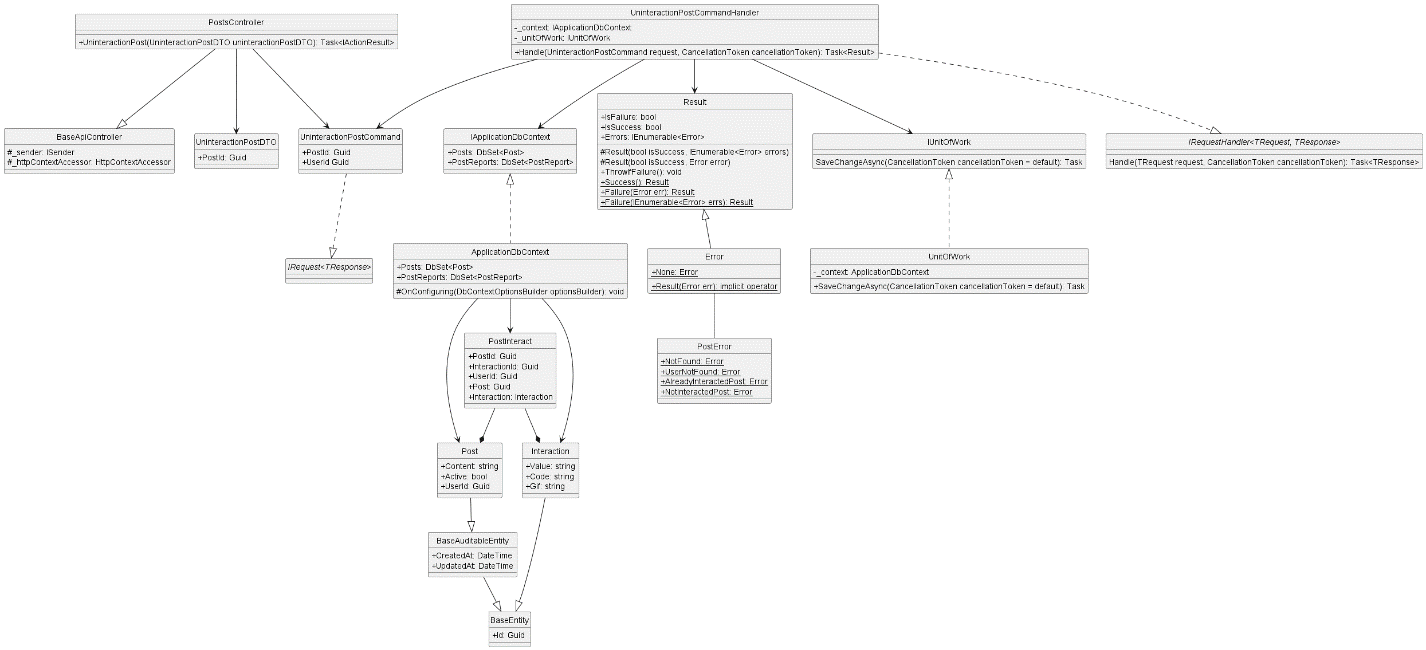
* + 1. **Get Post Interaction**

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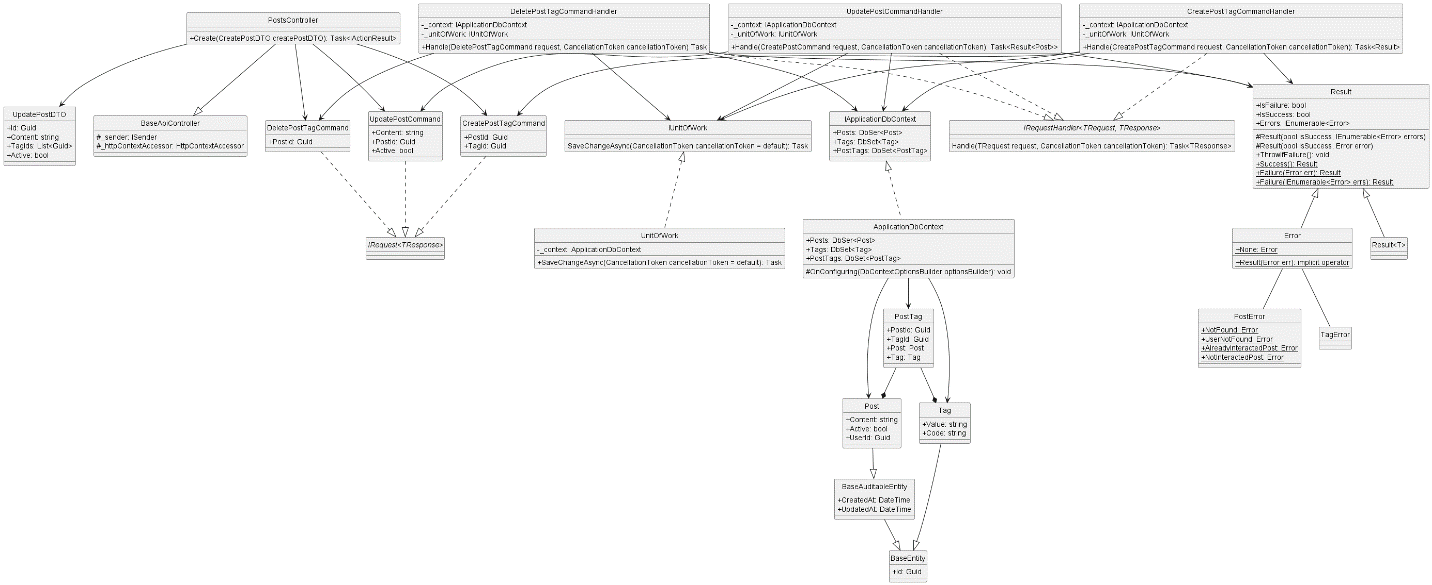
* + 1. **Get Report Post By Post Id**

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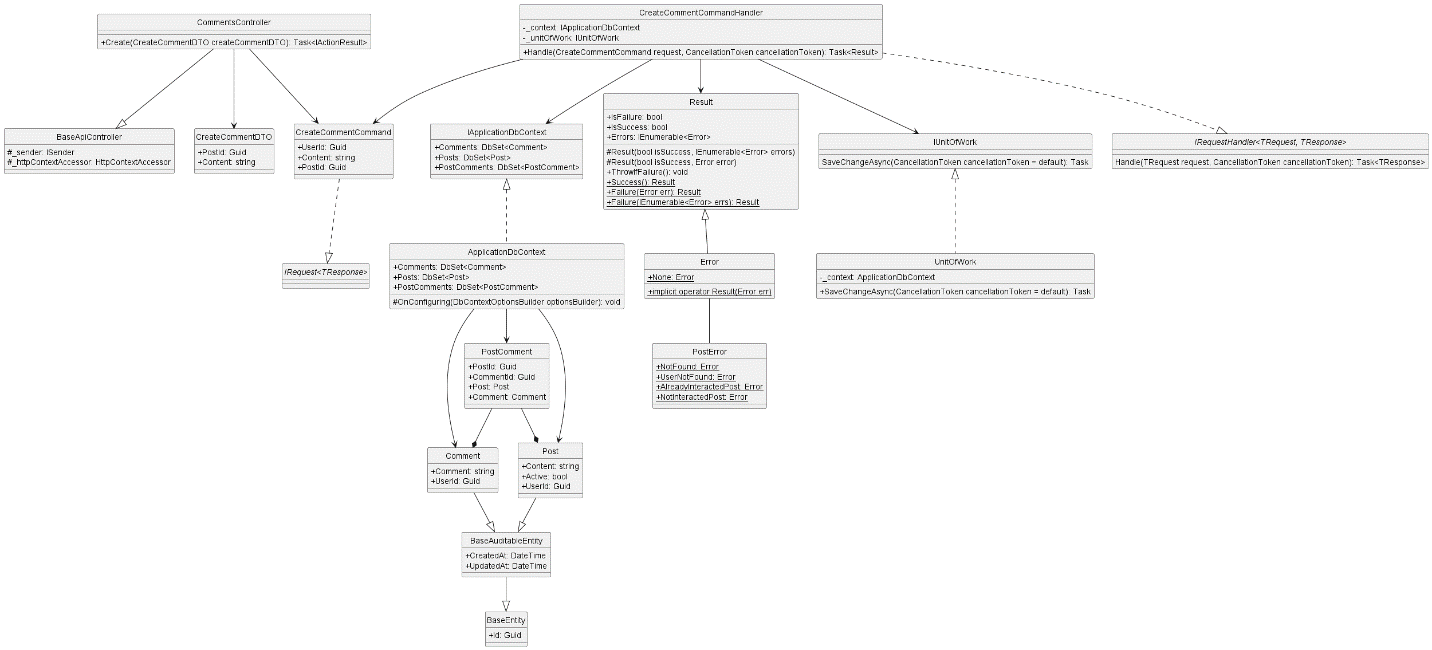
* + 1. **Uninteraction Post**

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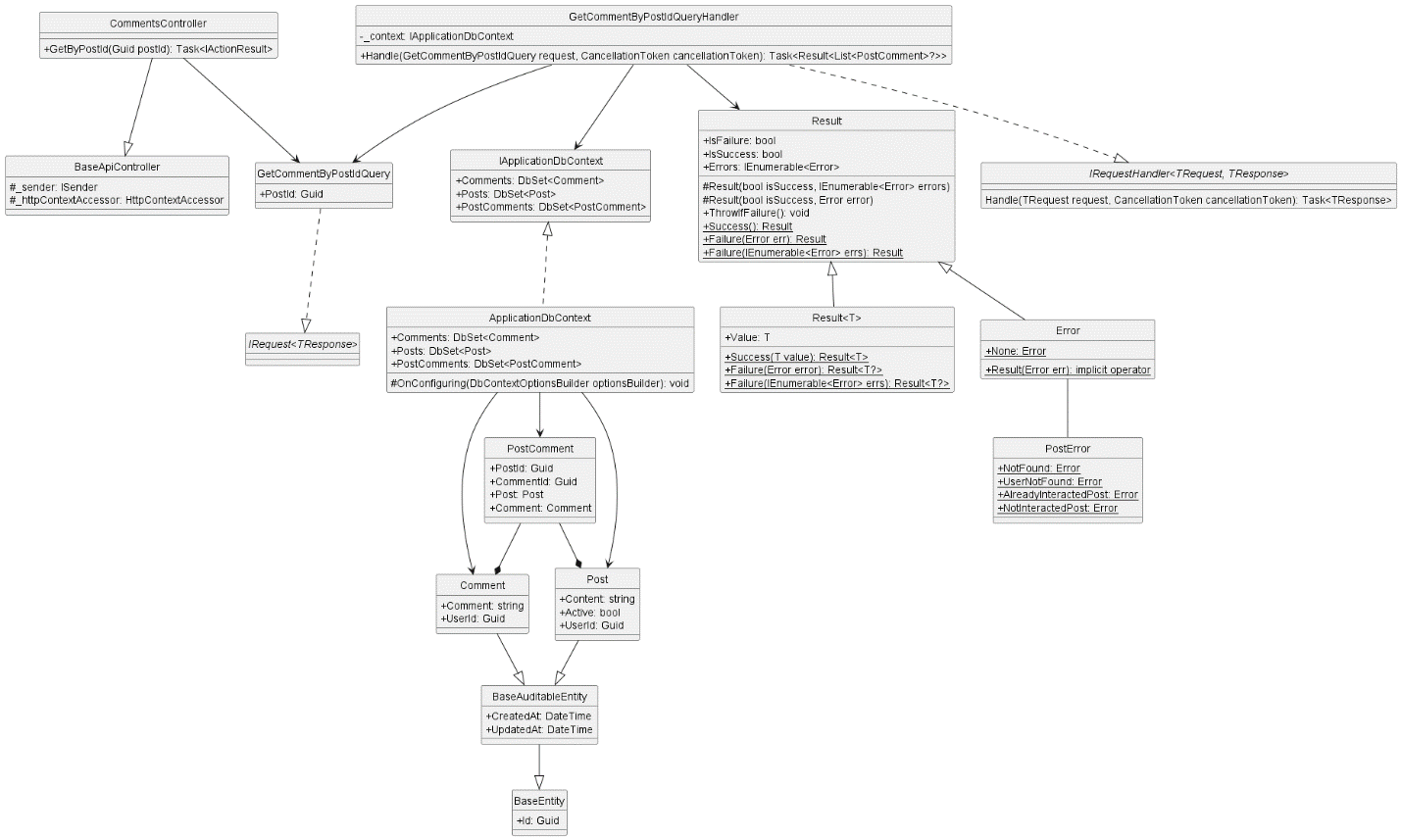
* + 1. **Update Post**

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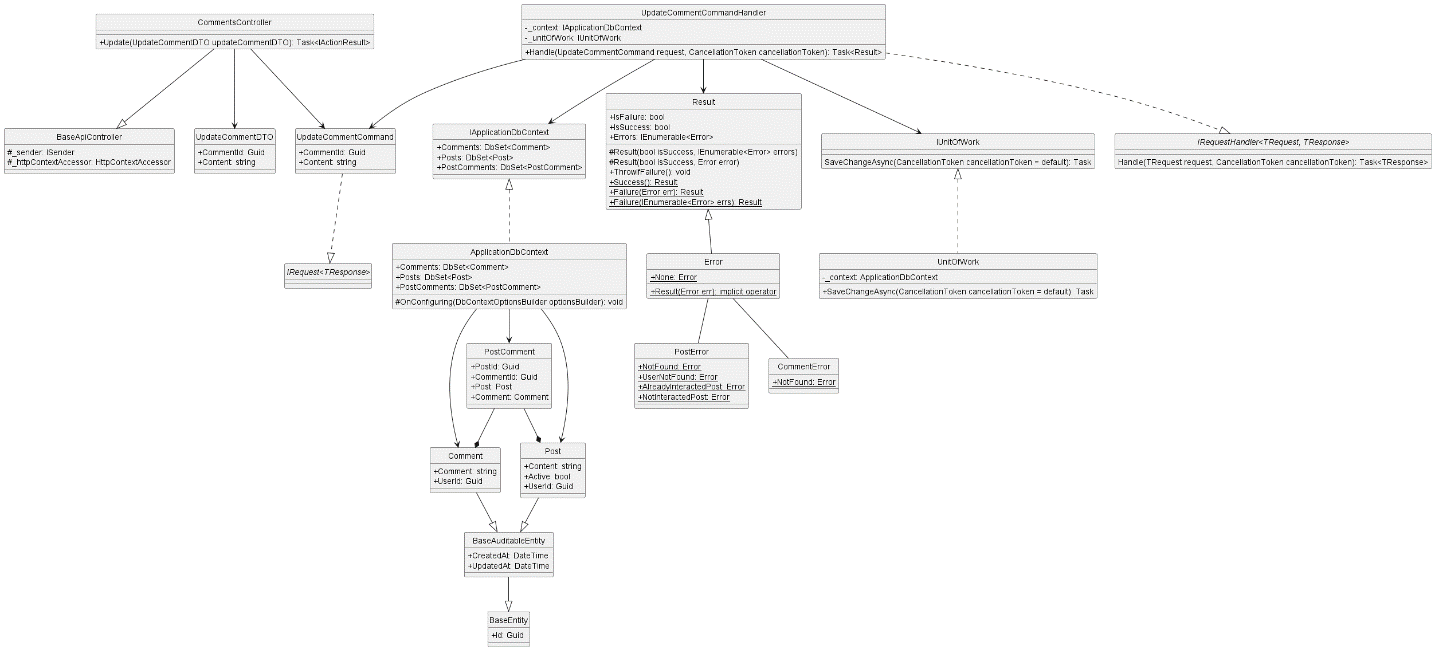
* + 1. **Create Comment**

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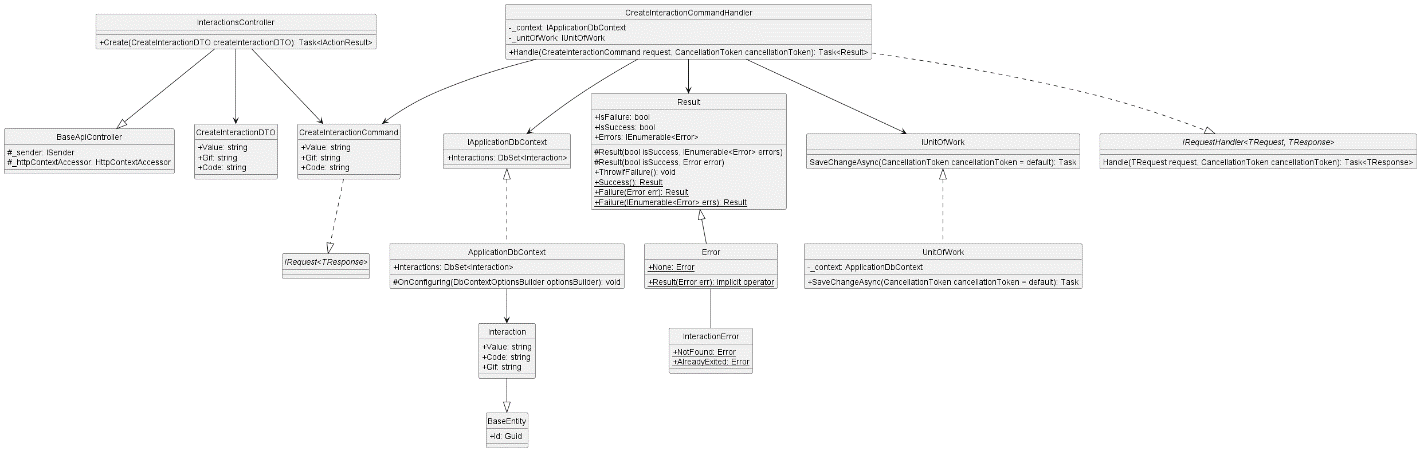
* + 1. **Get Comment By Post Id**

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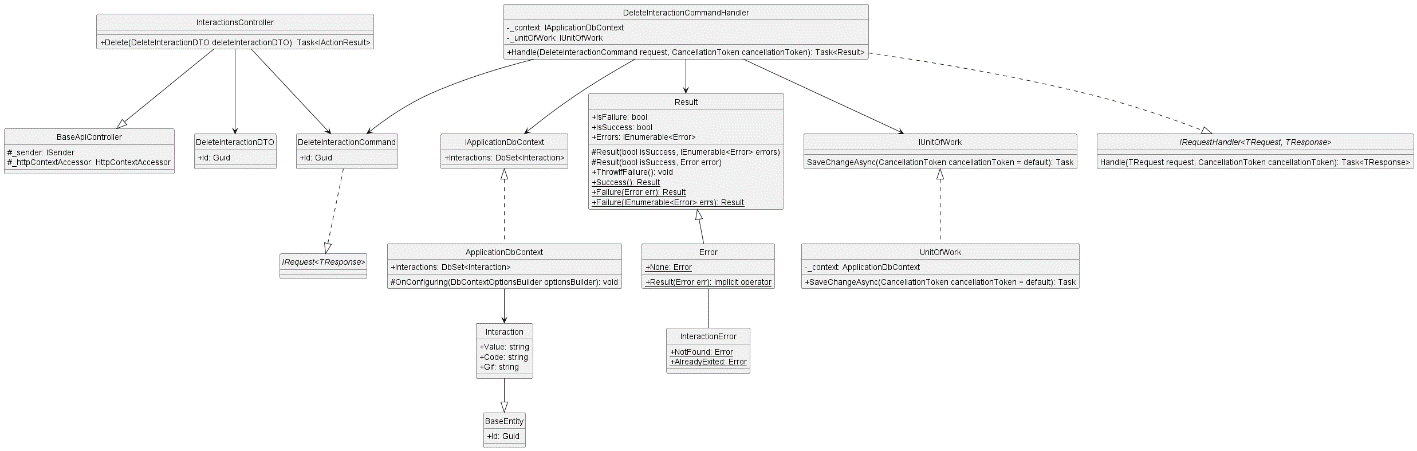
* + 1. **Update Comment**

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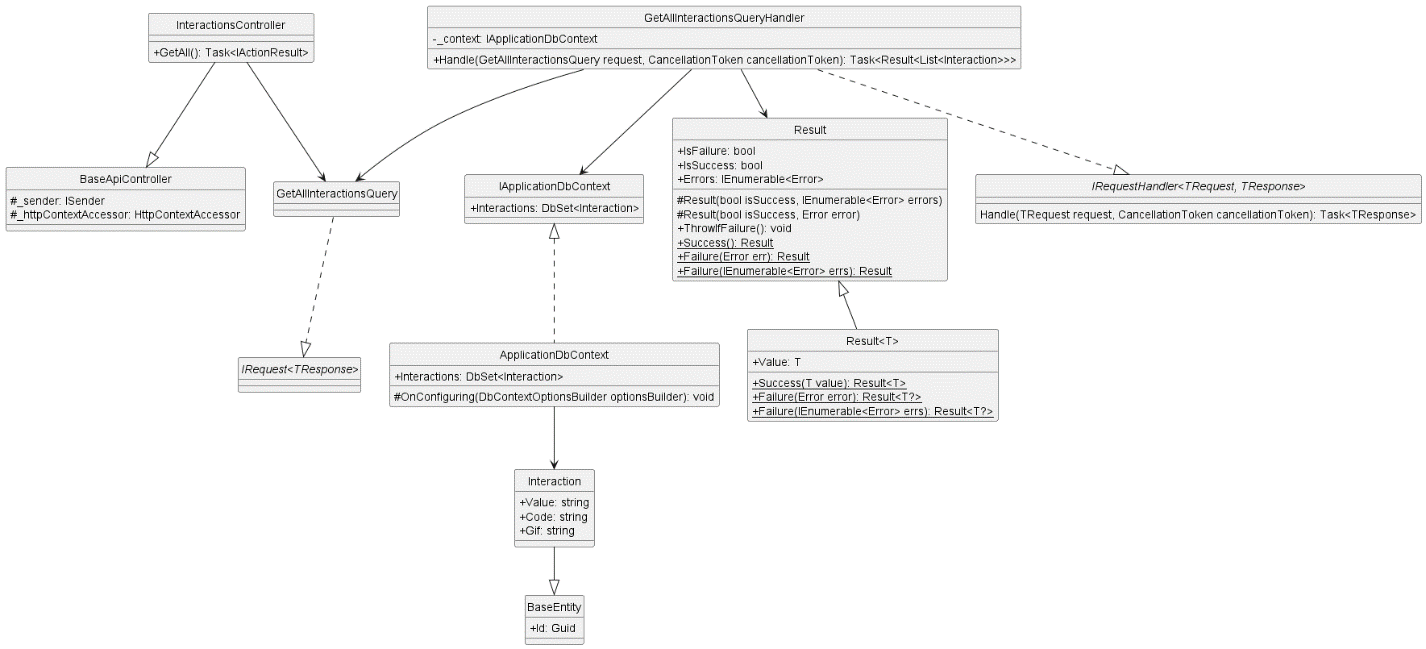
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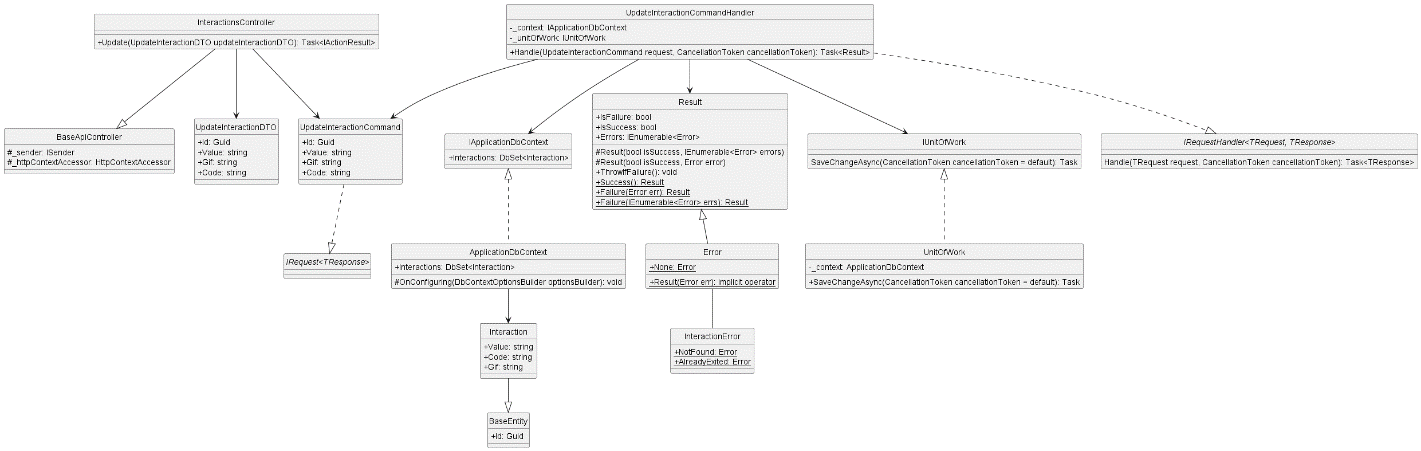
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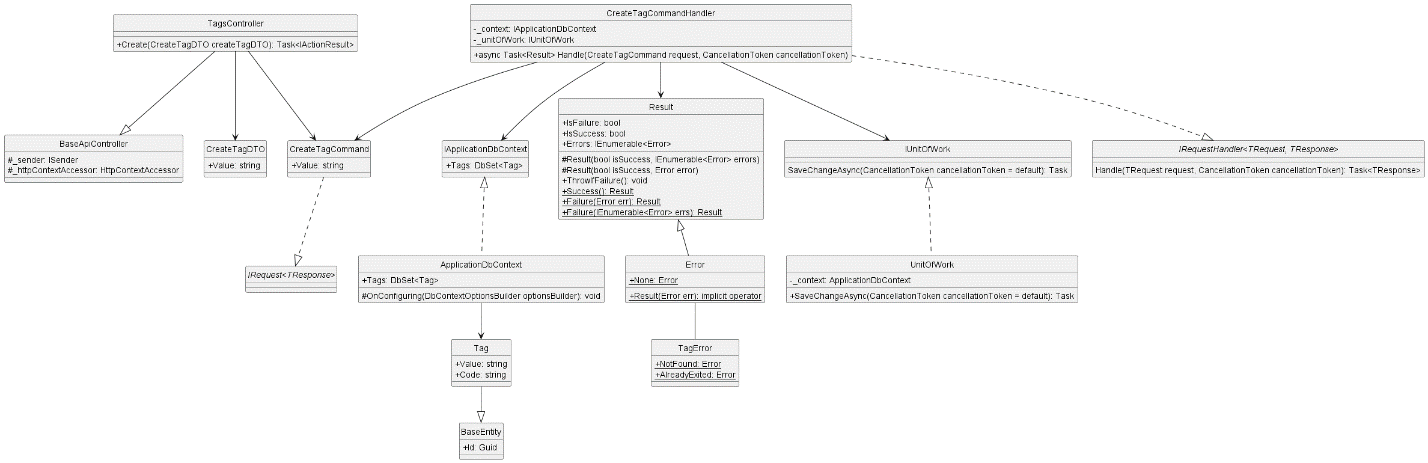
* + 1. **Get All Interaction**

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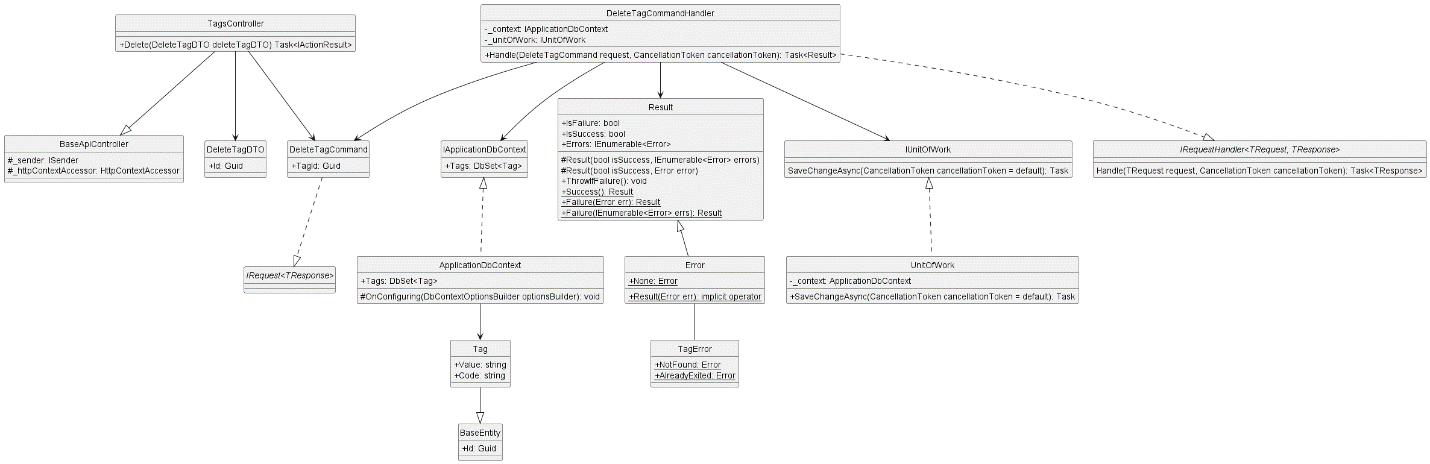
* + 1. **Update Interaction**

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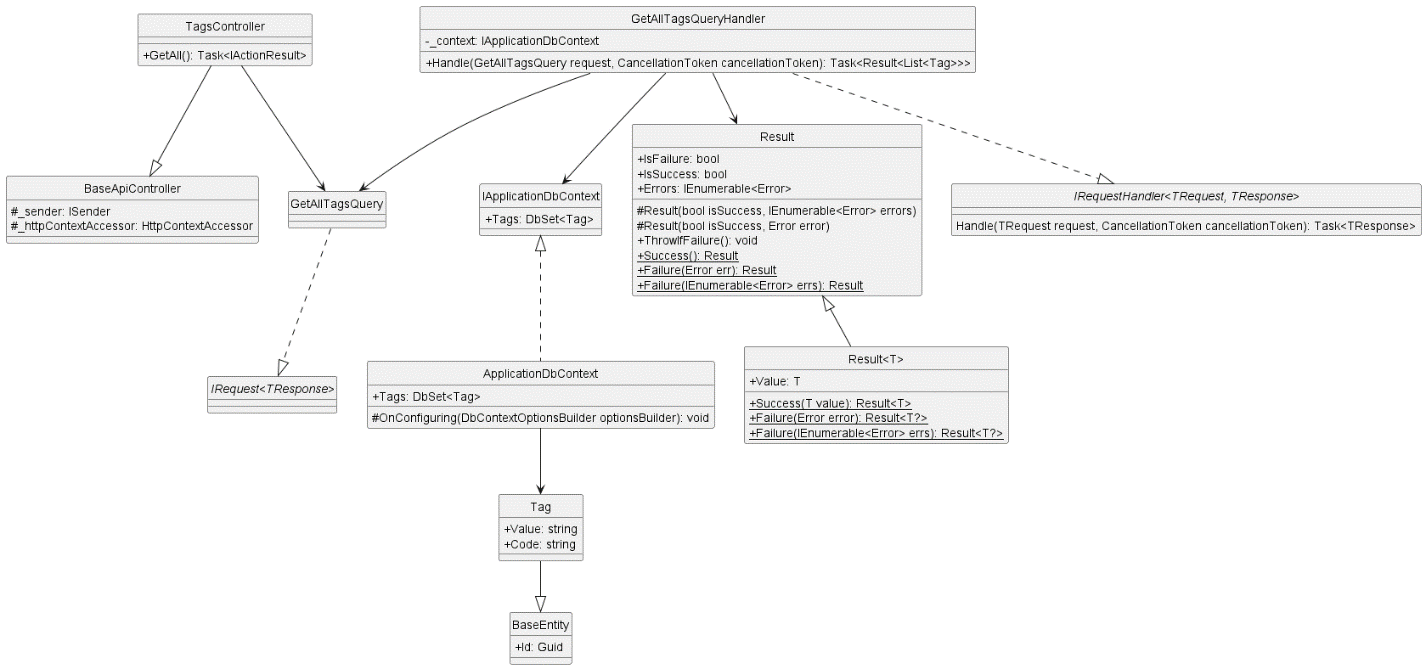
* + 1. **Create Tag**

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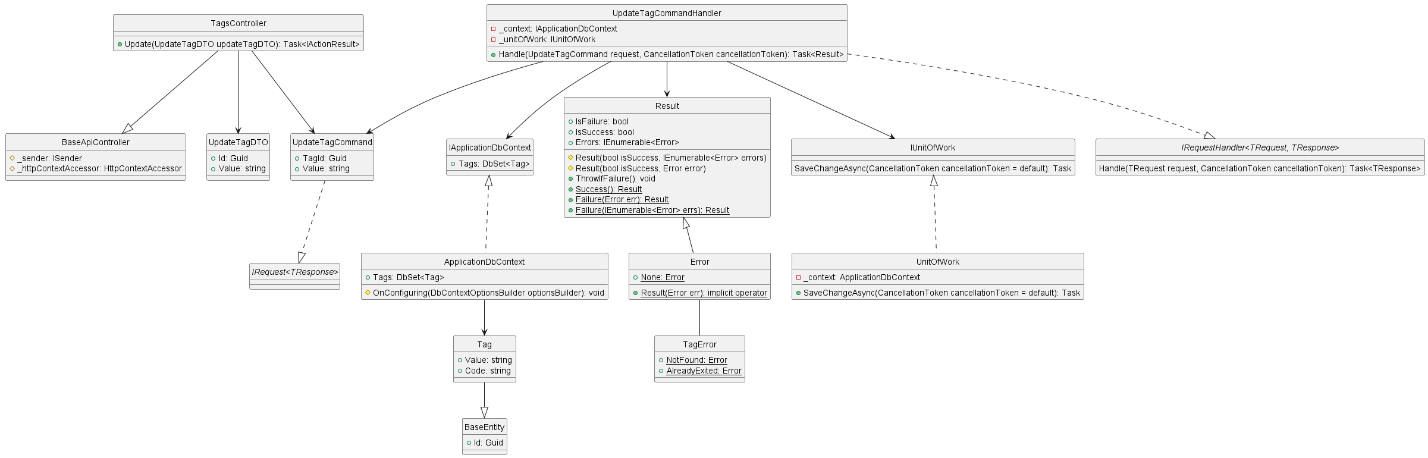
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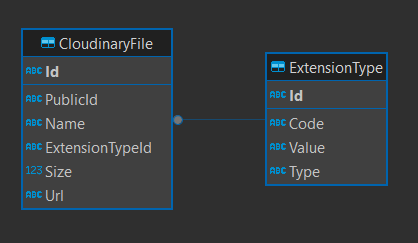
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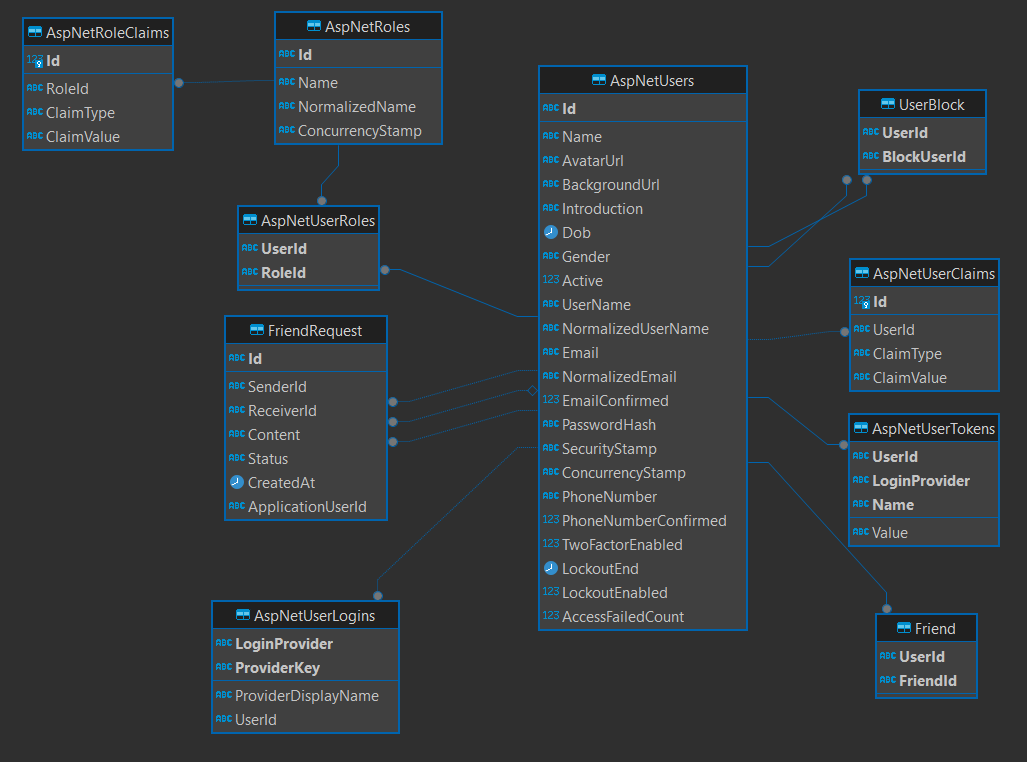
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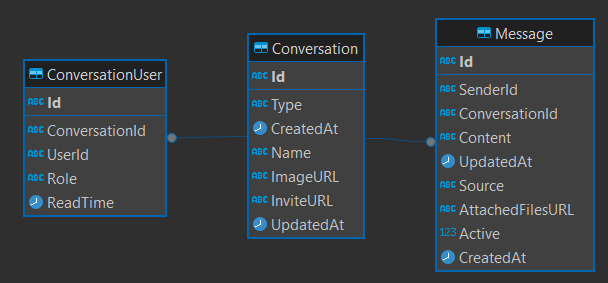
1. **Database diagram**
   1. **File Db**

****

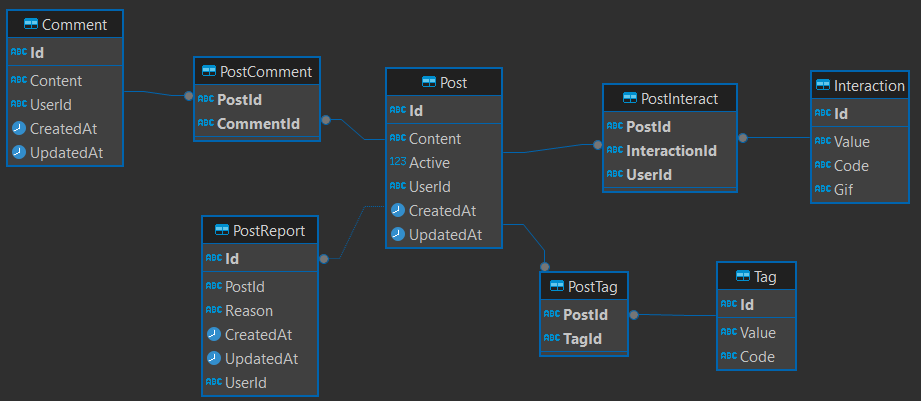
* 1. **IdentityDB**

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* 1. **MessageDB**

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* 1. **PostDB**

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