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| **Use Case “Add Friend”**   1. **Use case code**   UC003   1. **Brief Description**   This use case describes the interaction between user and Chat Web when user wish(es) to add a person into their friend list.   1. **Actors**    1. User 2. **Preconditions**   The friends who user wants to add are not in user’s friend list.  The user currently view profile of who user want to add or view searching people list.   1. **Basic Flow of Events** 2. The user select friend to add and send add friend request. 3. The software display greeting message form. 4. The user enters enter greeting message to send their friend want to add.(see Table 2) 5. The software check validity of data fields. 6. The software send a friend-adding message announcement for who is added. 7. Software waiting confirmation from friends. 8. Software send back result for user (who send request). 9. **Alternative flows**   Table 1-Alternative flows of events for UC Add Friend   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Location** | **Condition** | **Action** | **Resume location** | |  | At Step 4 | If data fields are invalid | * Chat Web display error format messages (see table 3) | Resumes at Step 3 | |  | At Step 6 | If their friend accepts adding-friend | * Chat Web update friend-list of two people. | Resumes at Step 7 | |  | At Step 6 | If their friend refuse adding-friend | * Chat Web delete friend-adding request. | Use case ends |  1. **Input data**   Table 2-Input data of greeting message information   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Mandatory** | **Valid condition** | **Example** | |  | Greeting messages |  | YES | Length <= 200 words | Hi bro, add friend plz. |  1. **Output data**   Table 3-Output data of messages   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **No** | **Data fields** | **Description** | **Display format** | **Example** | |  | Error message |  | Red | Email or password is wrong. |  1. **Postconditions**  * User can add friends into friend list.  1. **Activity Diagram**   A diagram of a flowchart  Description automatically generated |