**SEQUENCE DIAGRAMS**

Tutor Application

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**Design Diagrams:**

Send Chat Message

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subject | Action/message | Other objects/data | Object acted |
| 1) | User | selects | Send message | PM portal |
| 2) | PM portal | verifies | friendship | Other User: Profile |
| 3) | If other user is a friend |  | | |
| 3.1.1) | PM portal | Delivers | message | Other User: Profile |
| 3.1.2) | PM portal | Updates | That message is delivered | User |
| 3.2) | else |  | | |
| 3.2.1) | PM portal | Send error message | Other user is not a friend | User |

Diagram

Description automatically generated

Log User In

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subject | Action/message | Other objects/data | Object acted |
| 1) | User | submits | Username and password | Login GUI |
| 2) | Login GUI | Verifies | Username and Password | database |
| 3) | If verified: |  | | |
| 3.1.1) | Login GUI | Sets login | true | Home Screen UI |
| 3.2) | else |  | | |
| 3.2.1( | Login GUI | sends | Error msg | User |

Diagram

Description automatically generated

Create User Profile

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subject | Action/message | Other objects/data | Object acted |
| 1) | User | Requests to make | profile | User Profile |
| 2) | User Profile | Requests | Profile information | User |
| 3) | User Profile | Saves | Profile information | database |
| 4) | User Profile | Sends | Confirmation msg | User |

Chart, box and whisker chart

Description automatically generated

Tutor Search

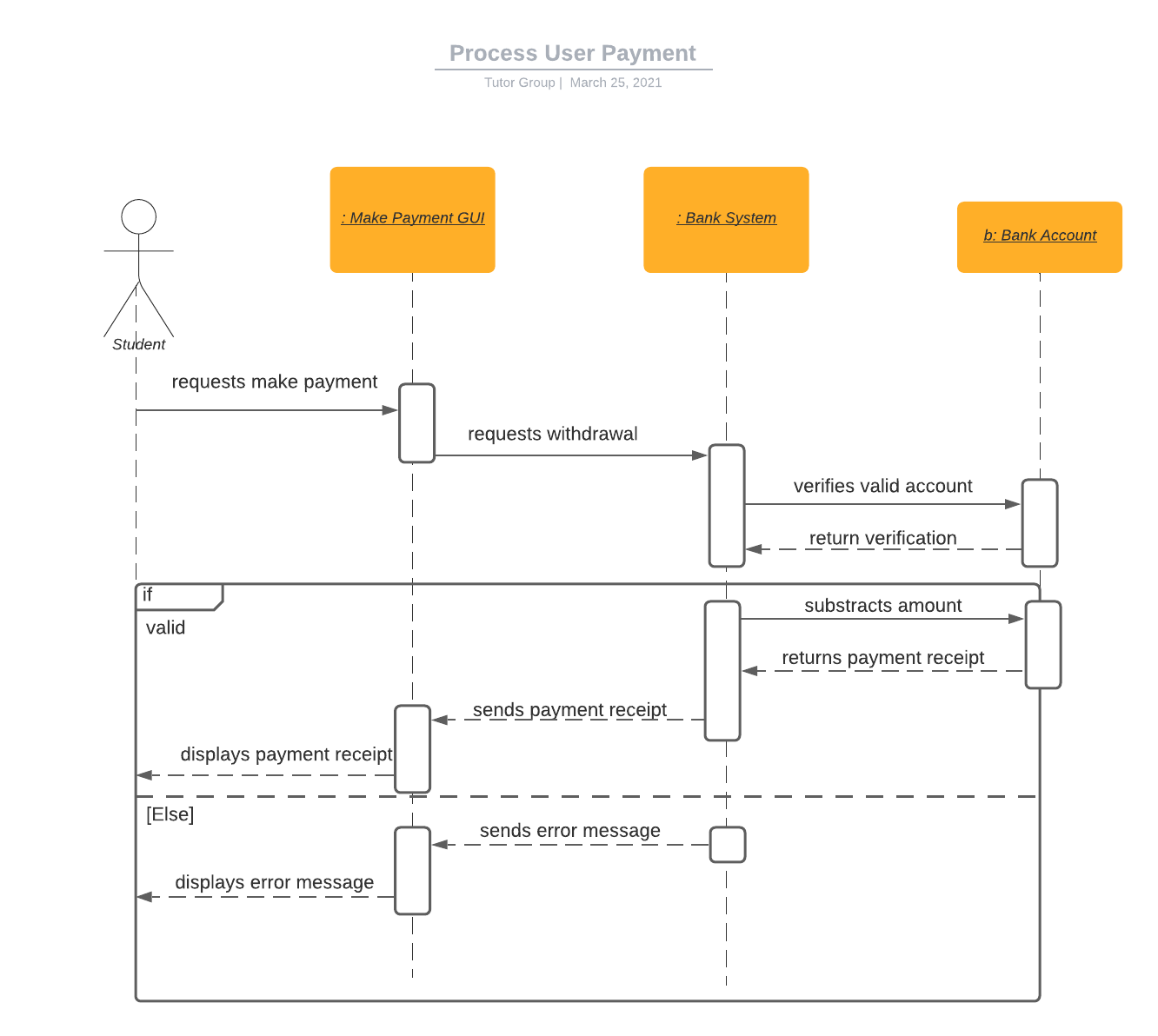
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subject | Action/message | Other objects/data | Object acted |
| 1) | User | searches | Tutor, specific attributes | Tutor Finder |
| 2) | Tutor Finder | Requests Query | Specific attributes | database |
| 3) | Data Base | Sends query | tutors | Tutor Finder |
| 4) | Tutor Finder | Sends | List of tutors | User |

Chart, box and whisker chart

Description automatically generated

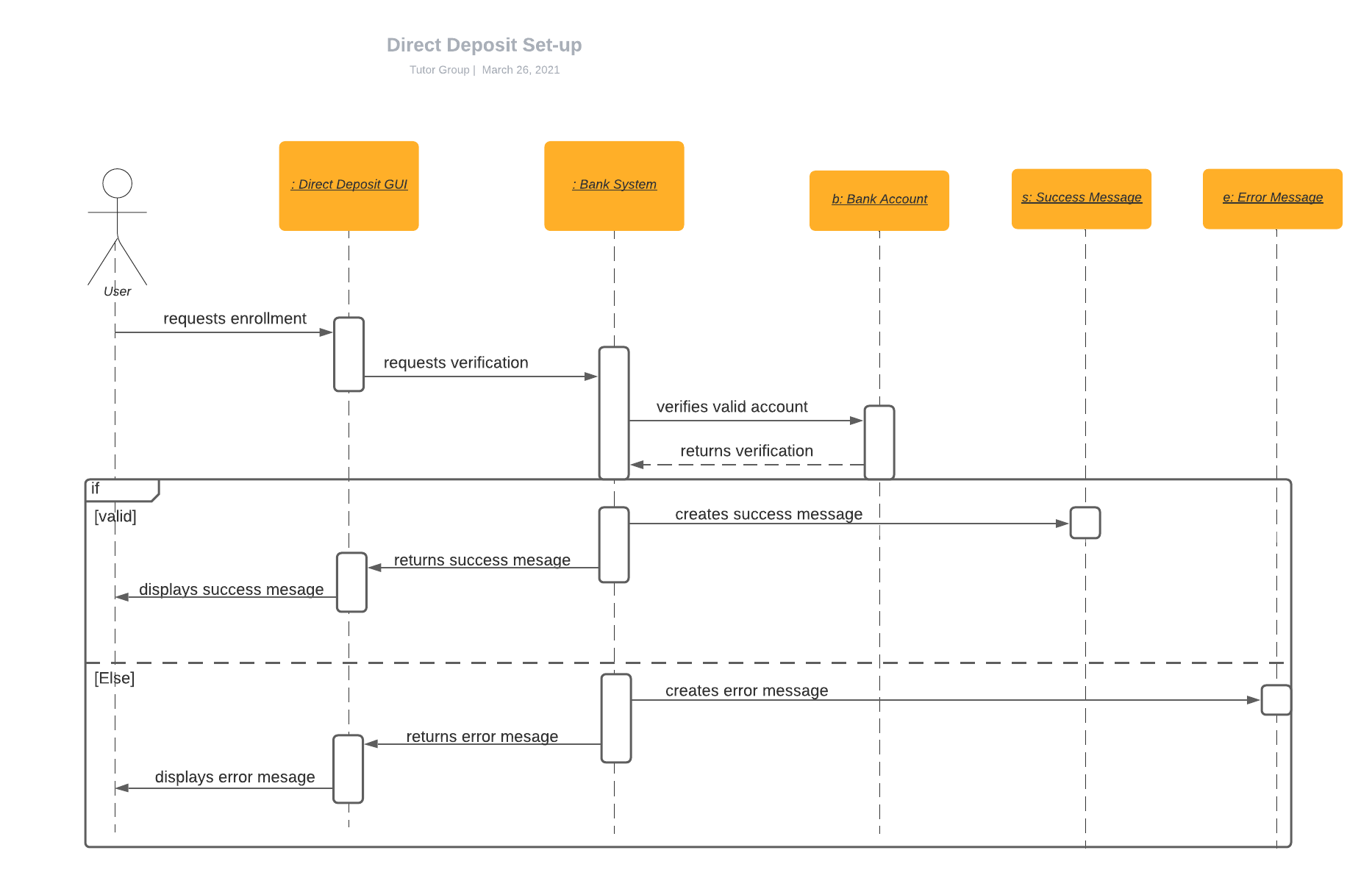
Process User Payment

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subject | Action/message | Other objects/data | Object acted |
| 1. | Student User | Requests | make payment | Make Payment GUI |
| 2. | Make Payment GUI | Requests | withdrawal | Bank System |
| 3. | Bank System | verifies | valid account | Bank Account |
| 4. | Bank Account | returns | verification | Bank System |
| 5. | if valid |  |  |  |
| 5.1. | Bank System | substracts | amount | Bank Account |
| 5.2. | Bank Account | returns | payment receipt | Bank System |
| 5.3. | Bank System | sends | payment receipt | Make Payment GUI |
| 5.4. | Make Payment GUI | displays | payment receipt | Student User |
| 6. | else |  |  |  |
| 6.1. | Bank System | sends | error message | Make Payment GUI |
| 6.2. | Make Payment GUI | displays | error message | Student User |



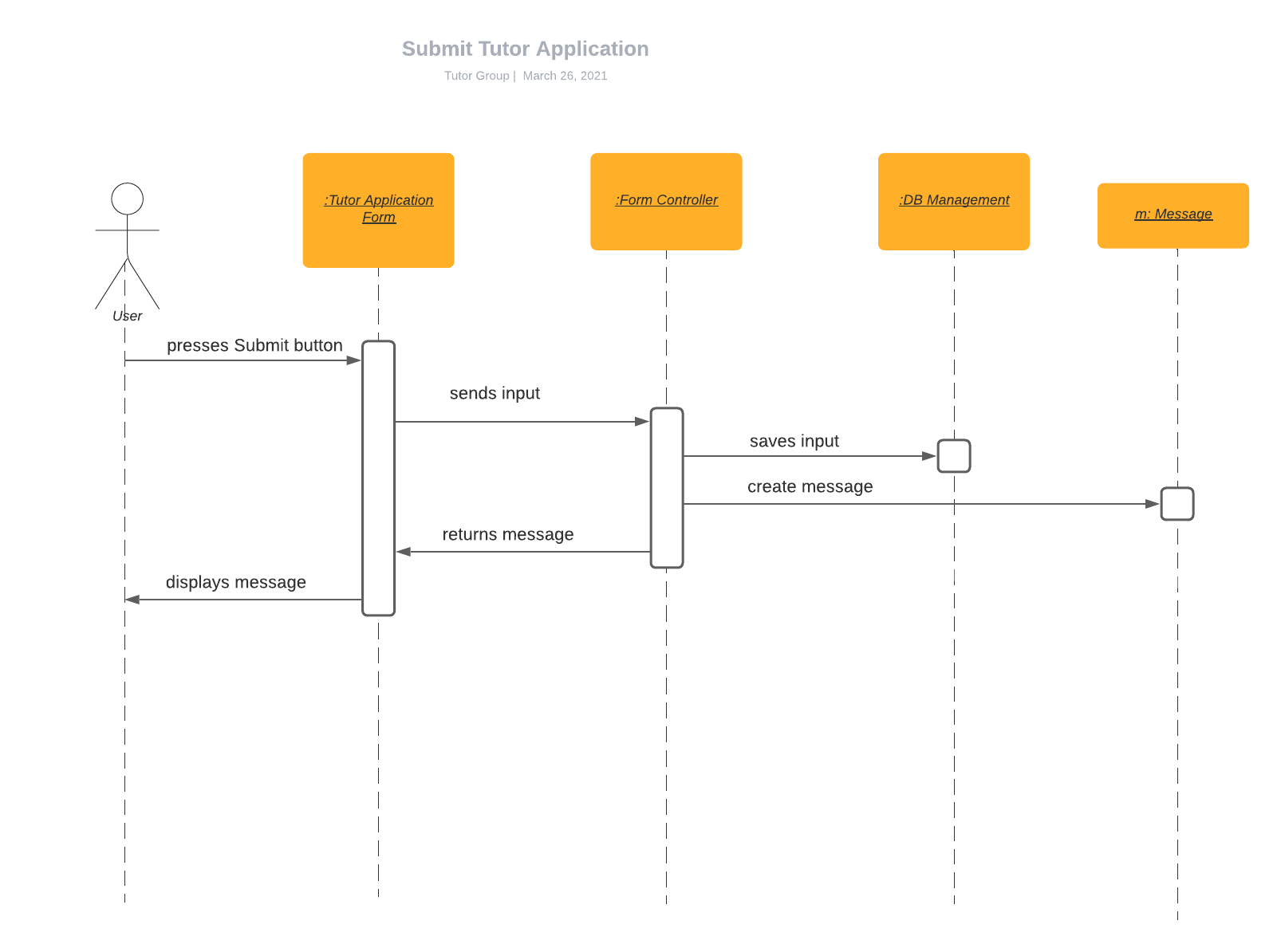
Direct Deposit Set-up

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subject | Action/message | Other objects/data | Object acted |
| 1. | User | requests | enrollment | Direct Deposit GUI |
| 2. | Direct Deposit GUI | requests | verification | Bank System |
| 3. | Bank System | verifies | valid account | Bank Account |
| 4. | Bank Account | returns | verification | Bank System |
| 5. | if valid |  |  |  |
| 5.1. | Bank System | creates | success message | s: Success Message |
| 5.2. | Bank System | returns | success message | Direct Deposit GUI |
| 5.3. | Direct Deposit GUI | displays | success message | User |
| 6. | else |  |  |  |
| 6.1. | Bank System | creates | error message | e: Error Message |
| 6.2. | Bank System | returns | error message | Direct Deposit GUI |
| 6.3. | Direct Deposit GUI | displays | error message | User |



Submit Tutor Application

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subject | Action/message | Other objects/data | Object acted |
| 1 | User | presses | Submit button | Tutor Application Form |
| 2 | Tutor Application Form | sends | input | Form Controller |
| 3 | Form Controller | saves | Input | DB Management |
| 4 | Form Controller | creates | message | m: Message |
| 5 | Form Controller | returns | message | Tutor Application Form |
| 6 | Tutor Application Form | displays | message | User |



Students with similar tutors/subjects

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Subject | Action/message | Other objects/data | Object acted |
| 1 | Student | presses | Search button | Community GUI |
| 2 | Community GUI | joins | tutors/subjects data | Search List |
| 3 | Search List | compares | Data | DB Management |
| 4 | DB Management | returns | Usernames with similar data | Search List |
| 5 | Search List | sends | usernames | Profile Controller |
| 6 | Profile Controller | Sends | usernames | Profile Manager |
| 7 | Profile Manager | Returns | User profiles | Profile Controller |
| 8 | Profile Controller | Returns | User profiles | Search list |
| 9 | Search List | Sends | User profiles | Community GUI |
| 10 | Community GUI | Displays | User profiles | Student |

