**Chore Change**

A picture containing room

Description automatically generated

Company: Big Ike Inc.

Submitted By: Isaac Medlin

Submitted To: Gary Clark

Email: [Isaac.medlin@oit.edu](mailto:Isaac.medlin@oit.edu)

Date: Tuesday, October 14, 2020

Version: 1.0

# Signatory Page

This document was accepted by:

X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature (Gary Clark) Date

This document was submitted by:

X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature (Isaac Medlin) Date

# Revision History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Author | Company | Version | Date | Filename | comments |
| Isaac Medlin | Big Ike Inc. | 1.0 | 10/14/2020 | Use Case Model | Initial Draft |
| Isaac Medlin | Big Ike Inc. | 1.1 | 11/2/2020 | Use Case Model | Crud matrix updated |
| Isaac Medlin | Big Ike Inc. | 1.2 | 12/3/20 20 | Use Case Model | Added Sequence Diagrams |

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# Context Diagram

Diagram

Description automatically generated

# Use Case Catalog Table

|  |  |  |
| --- | --- | --- |
| Use Case ID | Use Case Name | Description |
| 100 | Registering | Registers an account with the app. |
| 200 | Logging in | Logs a user into the app. |
| 300 | Add Chore | Adds a chore to the database. |
| 400 | Adding child account | Adds a child account under a parent account. |
| 500 | Paying out a Child | Takes their bank account amount, notifies parent, and then sets the amount to 0. |
| 600 | Child Completing a chore | Sets chore status to pending, waiting for parents’ approval. |
| 700 | Approving a chore | Sets chore status to completed, the chore dollar amount gets added to the child’s bank. |
| 800 | Switch account | Switches between the accounts on the phone |
| 900 | Account Page | Gives the option to change name, password, and if it’s a parent account, manage children linked to it |

# Actor Catalog Table

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| Parent User | Person | App owner with a valid sign in |
| Child User | Person | App owner with a valid sign in |

# Feature Verification Matrix

|  |  |  |
| --- | --- | --- |
| Feature #’s | Use Case ID | Use Case Name |
| 2 | 100 | Registering |
| 3, 9, 8 | 300 | Add Chore |
| 4 | 500 | Paying out Child |
| 5 | 900 | Account Page |
| 6, 10 | 800 | Switch Account |
| 7 | 600 | Child Completing a chore |
| 7.3-7.4 | 700 | Approving a chore |
| 5.3 | 400 | Adding Child Account |

# Use Case Specifications

## Registering

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Name\Number: 100  Subject Area: Account  Description: Creates an account | Responsible Analyst: Medlin |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 2 | User must be able to register an account |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Medlin | 10/14/20 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases (Adds Only)** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| **N/A** |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Parent | Person | Parent with a Samsung |
| Child | Person | Child with a Samsung, or they have a parent with a Samsung |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| **#** | **Description** |
| 1 | Welcome Screen |

|  |
| --- |
| **Start Stimulus** |
| User clicks on App icon |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Open app on phone |  |  |
| 2 | Clicks on register account |  |  |
| 3 | App prompts for username, password, security question and account type |  |  |
| 4 | User enters information |  |  |
| 5 | User hits enter |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid or taken information | App prompts that it is not valid or taken |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Welcome screen |
| 2 | User is logged in |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| App user | Can use the chore functions of the app | Name, Date |
| Child | Can view the posted chore | Name |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Can’t be tested yet | 10/1/2020 | Isaac |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

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| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 100 Average: 3 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

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| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 1 | Seconds | N/A | N/A | 2 | Don’t want them to get impatient while the app opens |
| 2 | At | 2 | Seconds | N/A | N/A | 2 | Don’t want them to spam the register button |
| 3 | At | 5 | Seconds | N/A | N/A | 4 | Don’t want them spamming the complete button |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 5 | Bytes | 1 | 5 | 10 | Adds information to DB |

## Logging in

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Name\Number: 200  Subject Area: Account  Description: Logs into an account | Responsible Analyst: Medlin |

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| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 6, 10 | User must be able to log into an account |

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| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Medlin | 10/14/20 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases (Adds Only)** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| **N/A** |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Parent | Person | Parent with a Samsung |
| Child | Person | Child with a Samsung, or they have a parent with a Samsung |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| **#** | **Description** |
| 1 | Welcome Screen |

|  |
| --- |
| **Start Stimulus** |
| User clicks on App icon |

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| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Open app on phone |  |  |
| 2 | App prompts for username and password. |  |  |
| 3 | User enters information |  |  |
| 4 | User hits enter |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid information | App prompts that the login information is not valid. |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Welcome screen |
| 2 | User is logged in |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| App user | Can use the chore functions of the app | Name, Date |
| Child | Can view the posted chore | Name |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | N/A |  |  |  |  |

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| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Can’t be tested yet | 10/1/2020 | Isaac |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

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| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 100 Average: 3 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 5 | Seconds | N/A | N/A | 4 | Don’t want them spamming the login button |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 5 | Bytes | 1 | 5 | 10 | Information added to the fields, checks DB if the information is correct. |

## Add Chore

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Name\Number: 300  Subject Area: Chore Task  Description: Add Chore | Responsible Analyst: Medlin |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 3,8,9 | Adding chores into the DB |

|  |  |  |
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| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Medlin | 10/14/20 | First Draft |

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| **Insertion Points in other Use Cases (Adds Only)** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| **N/A** |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Parent | Person | Parent with a Samsung |
| Child | Person | Child with a Samsung, or they have a parent with a Samsung |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| **#** | **Description** |
| 1 | Welcome Screen |
| 2 | Logged into the app as a parent account |

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| **Start Stimulus** |
| User clicks on App icon |

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| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Click add chore button |  |  |
| 2 | App prompts for chore information |  |  |
| 3 | User enters information |  |  |
| 4 | User hits enter |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid information | App prompts that the required chore information is not valid. |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Gets brought back to main screen |
| 2 | Chore is posted |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| App user | Can use the chore functions of the app | Name, Date |
| Child | Can view the posted chore | Name |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | N/A |  |  |  |  |

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| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Can’t be tested yet | 10/1/2020 | Isaac |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

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| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 100 Average: 3 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

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| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 5 | Seconds | N/A | N/A | 4 | Don’t want them spamming the enter button |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 5 | Bytes | 1 | 5 | 10 | Information added to the fields, adds chore to db. |

## Adding Child Account

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Name\Number: 400  Subject Area: Account Tasks  Description: Add Child to parent account | Responsible Analyst: Medlin |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 3,5 | Adding Child under a parent account |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Medlin | 10/14/20 | First Draft |

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| --- | --- | --- |
| **Insertion Points in other Use Cases (Adds Only)** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| **N/A** |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Parent | Person | Parent with a Samsung |
| Child | Person | Child with a Samsung, or they have a parent with a Samsung |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| **#** | **Description** |
| 1 | Welcome Screen |
| 2 | Logged into the app as a parent account |

|  |
| --- |
| **Start Stimulus** |
| User clicks on App icon |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Click account |  |  |
| 2 | Click add child button |  |  |
| 3 | App prompts for child unique id |  |  |
| 4 | User hits Add button. |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid information | App prompts that the required id is not valid. |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Gets brought back to main screen |
| 2 | Childs added underneath parent |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| App user | Can use the chore functions of the app | Name, Date |
| Child | Can view the posted chore | Name |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Can’t be tested yet | 10/1/2020 | Isaac |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 100 Average: 3 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 5 | Seconds | N/A | N/A | 4 | Don’t want them spamming the add button |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 5 | Bytes | 1 | 5 | 10 | Information added to the fields, adds chore to db. |

## Paying out Child Account

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Name\Number: 500  Subject Area: Account Tasks  Description: Paying out child’s bank | Responsible Analyst: Medlin |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 4 | Paying out the child accounts bank |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Medlin | 10/14/20 | First Draft |

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| --- | --- | --- |
| **Insertion Points in other Use Cases (Adds Only)** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| **N/A** |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Parent | Person | Parent with a Samsung |
| Child | Person | Child with a Samsung, or they have a parent with a Samsung |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| **#** | **Description** |
| 1 | Welcome Screen |
| 2 | Logged into the app as a child account |

|  |
| --- |
| **Start Stimulus** |
| User clicks on App icon |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Click bank tab |  |  |
| 2 | Click cash out button |  |  |
| 3 | App notifies the parent of the amount cashed out |  |  |
| 4 | Bank gets set to 0 |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| N/A |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Bank gets set to 0 |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| App user | Can use the chore functions of the app | Name, Date |
| Child | Can view the posted chore/bank | Name |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Can’t be tested yet | 10/1/2020 | Isaac |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 100 Average: 3 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 2 | seconds | N/A | N/A | 4 | Takes time to notify database and set the balance to 0. |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 2 | Bytes | 1 | 5 | 10 | Information’s changed in the database. |

## Child completing a chore

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Name\Number: 600  Subject Area: Chore Tasks  Description: Child Completing a chore Chore | Responsible Analyst: Medlin |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 7 | Child completing an accepted chore |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Medlin | 10/14/20 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases (Adds Only)** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| **N/A** |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Parent | Person | Parent with a Samsung |
| Child | Person | Child with a Samsung, or they have a parent with a Samsung |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| **#** | **Description** |
| 1 | Welcome Screen |
| 2 | Logged into the app as a child account |

|  |
| --- |
| **Start Stimulus** |
| Welcome screen |
| Child accepts a chore from the existing list |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Child accepts chore |  |  |
| 2 | Child completes chore |  |  |
| 3 | Chore status gets switched to “awaiting approval |  |  |
| 5 | Brought back to home screen |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| N/A |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Gets brought back to main screen |
| 2 | Chore status changes |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| App user | Can use the chore functions of the app | Name, Date |
| Child | Can view the posted chore | Name |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 11 | Can’t be tested yet | 10/1/2020 | Isaac |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |
| --- |
| **Frequency of Execution** |
| **Frequency:**  Minimum: 0 Maximum: 100 Average: 3 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 2 | Seconds | N/A | N/A | 4 | Don’t want them spamming the complete button |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 5 | Bytes | 1 | 3 | 7 | Information changed in the db. |

## Approving a Chore

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Name\Number: 700  Subject Area: Chore tasks  Description: Logs into an account | Responsible Analyst: Medlin |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 7.3-7.4 | Approving a completed chore |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Medlin | 10/14/20 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases (Adds Only)** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| **N/A** |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Parent | Person | Parent with a Samsung |
| Child | Person | Child with a Samsung, or they have a parent with a Samsung |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| **#** | **Description** |
| 1 | Must be logged in as a parent account |
| 2 | A child must of completed a chore |

|  |
| --- |
| **Start Stimulus** |
| User clicks on App icon |
| Child completes chore |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Open app as a parent account |  |  |
| 2 | Click on a chore under the awaiting approval section |  |  |
| 3 | Check if chore is done up to par |  |  |
| 4 | Hit the approve button |  |  |
| 5 | The dollar value is added into the child’s bank |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| N/A |  |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Brought back to the main screen |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| App user | Can use the chore functions of the app | Name, Date |
| Child | Can view the posted chore | Name |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Can’t be tested yet | 10/1/2020 | Isaac |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency of Execution** | | | | | | | |
| **Frequency:**  Minimum: 0 Maximum: 100 Average: 3 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: | | | | | | | |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 4 | Seconds | N/A | N/A | 4 | Don’t want them spamming the complete button |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 4 | Bytes | 1 | 5 | 10 | Updating chore information in the database. |
| 2 | 5 | Bytes | 1 | 3 | 7 | Adding the dollar amount into the child’s bank |

## Switch Account

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Name\Number: 800  Subject Area: Account  Description: Switching accounts | Responsible Analyst: Medlin |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 6, 10 | Switching accounts on the same device |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Medlin | 10/14/20 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases (Adds Only)** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| **N/A** |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Parent | Person | Parent with a Samsung |
| Child | Person | Child with a Samsung, or they have a parent with a Samsung |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| **#** | **Description** |
| 1 | Must be logged in as either account |

|  |
| --- |
| **Start Stimulus** |
| User clicks on App icon |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Open app as a either account |  |  |
| 2 | Click on the account button on the top right of the screen |  |  |
| 3 | Hit either add account or click on an already existing account |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid information | App prompts that the login information is not valid for the new account. |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Brought back to the main screen |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| App user | Can use the chore functions of the app | Name, Date |
| Child | Can view the posted chore | Name |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Can’t be tested yet | 10/1/2020 | Isaac |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency of Execution** | | | | | | | |
| **Frequency:**  Minimum: 0 Maximum: 100 Average: 3 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: | | | | | | | |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 3 | Seconds | N/A | N/A | 3 | Don’t want them spamming the buttons for other accounts |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 3 | Bytes | 1 | 5 | 10 | Switching GUI’s between parent/child |
| 2 | 3 | Bytes | 1 | 5 | 10 | Checking database if adding another account to the list |

## Account Page

|  |  |
| --- | --- |
| **General Information** | |
| Use Case Name\Number: 900  Subject Area: Account Functions  Description: Account Page | Responsible Analyst: Medlin |

|  |  |
| --- | --- |
| **Requirements/Feature Trace** | |
| **REQ#** | **Requirements Name and / or Short Description** |
| 6, 10 | The account page |

|  |  |  |
| --- | --- | --- |
| **Revision History** | | |
| **Author** | **Date** | **Comments** |
| Medlin | 10/14/20 | First Draft |

|  |  |  |
| --- | --- | --- |
| **Insertion Points in other Use Cases (Adds Only)** | | |
| **Use Case Name** | **Use Case Number** | **Step Inserted After** |
| **N/A** |  |  |

|  |  |  |
| --- | --- | --- |
| **Actors** | | |
| **Actor Name** | **Person/System** | **Brief Description** |
| Parent | Person | Parent with a Samsung |
| Child | Person | Child with a Samsung, or they have a parent with a Samsung |

|  |  |
| --- | --- |
| **Pre-Conditions** | |
| **#** | **Description** |
| 1 | Must be logged in as either account |

|  |
| --- |
| **Start Stimulus** |
| User clicks on App icon |
| User clicks on Account tab |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case Main Course Steps** | | | |
| **Number** | **Description** | **Adds/Alt Name/Number** | **Bus Rule#** |
| 1 | Open app as a either account |  |  |
| 2 | Click on the account tap on the bottom of the screen |  |  |
| 3 | Click on any of the Menu items to change information |  |  |
| 4 | Enter new information for what’s selected |  |  |

|  |  |  |
| --- | --- | --- |
| **Exception Conditions** | | |
| **Exception Situations** | **Action(s) on Exception** | **Adds\Alt UC #** |
| User enters invalid information | App prompts that the entered information is not valid for any of the fields. |  |

|  |  |
| --- | --- |
| **Post-Conditions** | |
| **#** | **Description** |
| 1 | Brought back to the main account screen |

|  |  |  |
| --- | --- | --- |
| **Candidate Objects** | | |
| **Class/Object Name** | **Descriptions** | **Possible**  **attributes** |
| App user | Can use the chore functions of the app | Name, Date |
| Child | Can view the posted chore | Name |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assumptions** | | | | | |
| **#** | **Assumption** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | N/A |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Issues** | | | | | |
| **#** | **Issue** | **Date**  **Raised** | **Raised**  **By** | **Date**  **Verified** | **Verified By** |
| 1 | Can’t be tested yet | 10/1/2020 | Isaac |  |  |

|  |  |  |
| --- | --- | --- |
| **Other Comments** | | |
| **Author** | **Comment** | **Date** |
| N/A |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency of Execution** | | | | | | | |
| **Frequency:**  Minimum: 0 Maximum: 100 Average: 3 (OR)Fixed:  **Per:** Hour:Day:  Week:  Month:  Other: | | | | | | | |
| **Timing Information** | | | | | | | |
| **#** | **At/**  **Between** | **Step(s)** | **Timing**  **Unit** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | At | 4 | Seconds | N/A | N/A | 3 | Don’t want them spamming the buttons for changing information |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Volume Information** | | | | | | |
| **#** | **Step #** | **Unit of**  **Measure** | **Minimum** | **Average** | **Maximum** | **Comments** |
| 1 | 4 | Bytes | 1 | 5 | 10 | Changing the information in the database |

# CRUD Matrix

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Use Case Id | Use Case Name | Type | Account | Parent | Child | Chores | Main Controller |
| 100 | Registering | Read | C |  |  |  |  |
| 200 | Logging In | Read | R |  |  |  | R |
| 300 | Add Chore | Write |  | C |  | C |  |
| 400 | Adding Child Account | Read | R | R |  |  |  |
| 500 | Paying Out child | Read/ Update |  | R | UR |  |  |
| 600 | Child completing chores | Read/ Update |  | R | RU | U |  |
| 700 | Approving a chore | Read/  Update |  | RU |  | U |  |
| 800 | Switch Account | Read | R |  |  |  | R |
| 900 | Account Page | Read/  Write/  Update | RU |  |  |  |  |

# Low Fidelity UI

## Parent GUI

Diagram

Description automatically generated

Diagram

Description automatically generated

Diagram

Description automatically generated

Table

Description automatically generated

A picture containing table

Description automatically generated

## Child GUI

Graphical user interface, text, application

Description automatically generated

Table

Description automatically generated

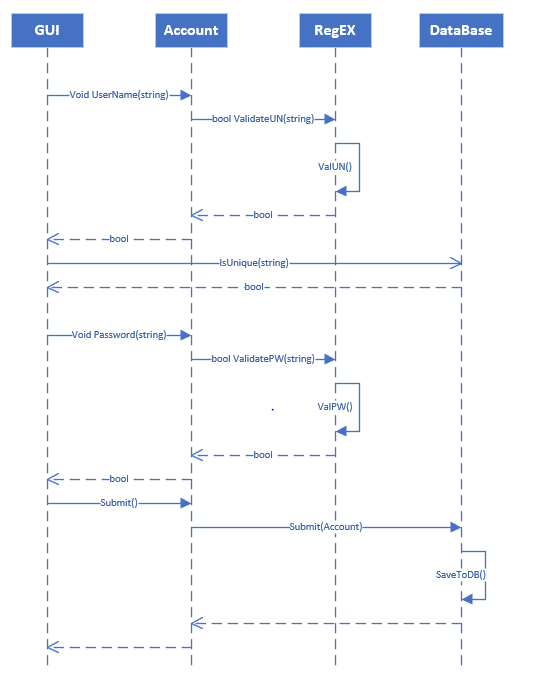
A picture containing text

Description automatically generated

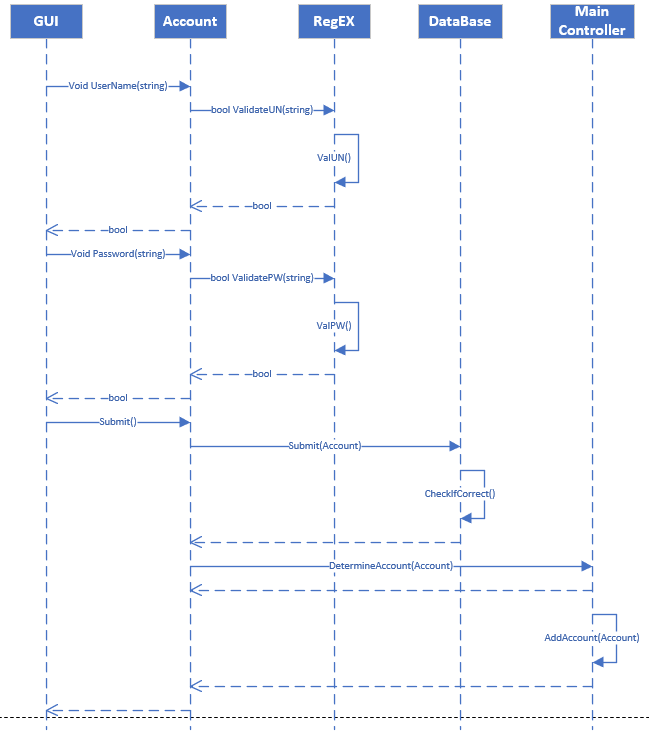
# Sequence Diagrams

|  |  |  |
| --- | --- | --- |
| Use Case ID | Use Case Name | Description |
| 100 | Registering | Registers an account with the app. |
| 200 | Logging in | Logs a user into the app. |
| 300 | Add Chore | Adds a chore to the database. |
| 400 | Adding child account | Adds a child account under a parent account. |
| 500 | Paying out a Child | Takes their bank account amount, notifies parent, and then sets the amount to 0. |
| 600 | Child Completing a chore | Sets chore status to pending, waiting for parents’ approval. |
| 700 | Approving a chore | Sets chore status to completed, the chore dollar amount gets added to the child’s bank. |
| 800 | Switch account | Switches between the accounts on the phone |
| 900 | Account Page | Gives the option to change name, password, and if it’s a parent account, manage children linked to it |

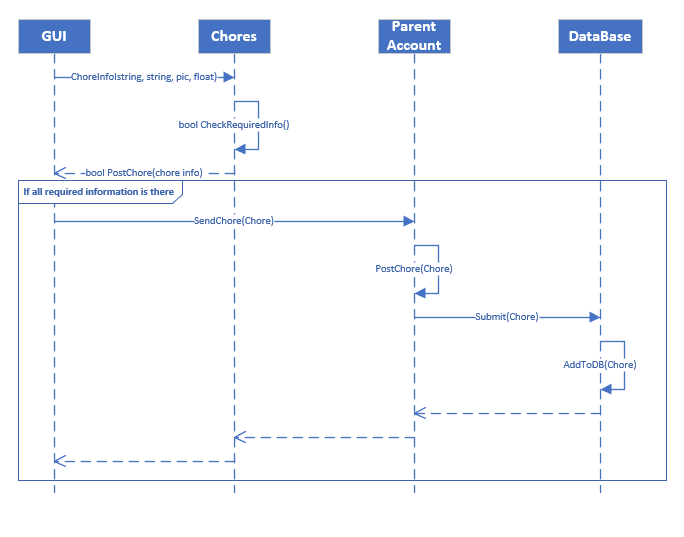
## Registering



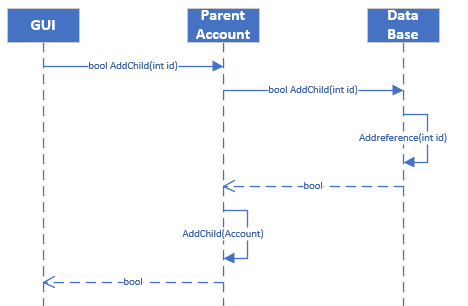
## Logging In



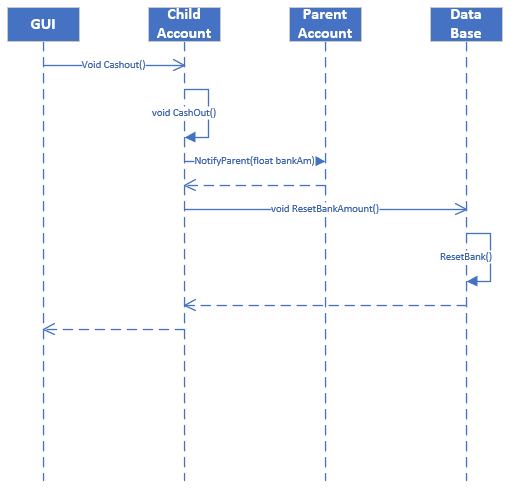
## Add Chore



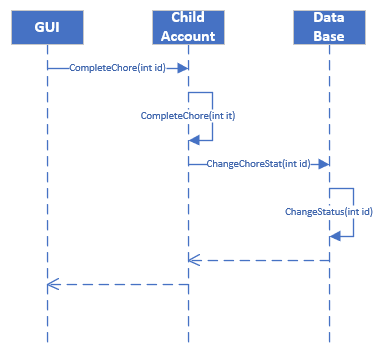
## Adding Child Account



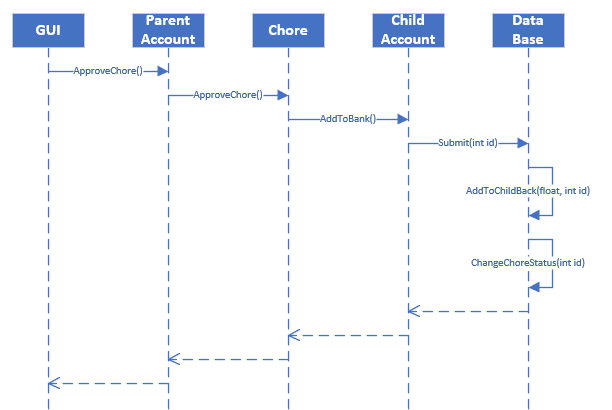
## Paying out child



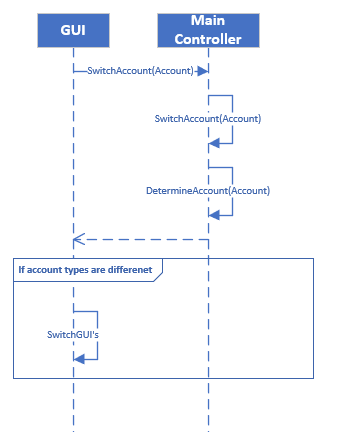
## Child Completing a Chore



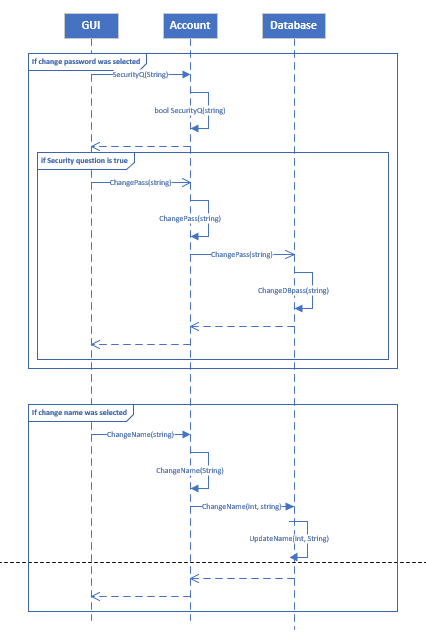
## Approving a chore



## Switch Account



## Account Page



# Glossary

**Bank-** A child accounts accrued money through doing chores.

**Payout-** Resetting a child’s bank back to 0 after selecting this option. Parent’s account gets notified of them wanting to get paid out.

**DB-** Abbreviation for database.

**Child-** Abbreviation for child account.

**Parent-**Abbreviation for parent account.

# Appendix A

## Business Rules

-No business rules that I can think of at the moment.