Bug Reports

a.k.a code smells

Include a document explaining the code smells or design issues you resolved with your refactoring. Describe what the code/design looked like before, what refactoring you applied, and how does it look like now.

- 3) Postmortem analysis (5 minutes) As a postmortem analysis, discuss some of the issues that arose during the development of your product. This will be informal; in that you can discuss any of a number of issues:
- What was the overall architecture of your system (particularly if it is different from the example system)?
 - This architecture involves 5 modules:
 - 1. One for managing accounts
 - 2. One for chores and their utilities
 - 3. One for storing our database setup and operations.
 - 4. One for all the User Interfaces involving registration, login, competition, etc.
 - 5. One for all the Integrated test cases, JUnit test cases
- How large is the project (number of methods, classes, etc.)? How much of this is (roughly) devoted to each major system component? And any other quantifiables (e.g. if you have a record of hours spent on tasks).
 - We had a total of 28 classes (22 src classes and 6 Junit test classes). The code has around 340,000 lines of code.

What went right in the development process?

- We were able to effectively implement the competition feature within the GUI itself. Originally we had started with the competition module however we realized that we weren't properly able to utilize this feature as we needed to make it so that we assign 1 chore to multiple children. In this case we need direct access to the parent and child accounts using the database. For this reason we implemented this feature in the GUI
- Chore History in the child account GUI took a surprisingly long time to implement due to the color coordination required.
- The Parent is able to complete all the tasks they need such as creating chores, assigning chores and linking their children.
- The child is able to mark their chores complete or not complete, they can use chore history to view their past chores and view the status of them, and they can also filter their chores based on various method such as payment, time, alphabetical, etc.

- Child and Parent Registrations and logins also went right in this development project
- What went wrong in the development process?
 - Sometimes the database would be updated but not dropped by other users which would cause issues. We would have to
- What would you do differently, if you had the chance to start over?
 - A more structured time frame for people to complete their assigned tasks.

What took the most time? The least? Any surprises?

- The thing that took the most time was implementing and setting up the database, the least time was the chore count feature since we had most of the information at hand for this implementation/user story. Chore history also took a considerable amount of time and effort since it required us fetching the values from the database to display the information to the user. Some of the surprises we ran into was how many times we would have to drop and rebuild the database since most of our features would be linked to databases and rely on stored information.
- Are there any particular design smells, or brilliant design decisions?

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- Are there any outstanding bugs?
 - One of the code smells is that the milestone feature doesn't work.
- Did any features work better than expected?
 - The
- Are you using any technologies other than what was required?

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• How did the project change from your initial (iteration 0) vision or stories, or did it work out as predicted?

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- What did you learn about team or large project development? What will you start doing, keep doing, or stop doing next time?
 - We learnt that communication is key. Communication plays a huge role in team
 dynamics and is a foundation of the team's success. Next time we learnt we should
 focus more on communication and host weekly meetings to catch up with the work every
 member has been doing. Something we will keep doing is planning ahead, we made

plans and would plan ahead for future visions of the project within a planned time frame. Something we will stop doing next time is sticking on one task and sticking with it and trying not to make too many compromises as this also throws off the team dynamic. Perhaps spending more time on future implementations would avoid the risk of having to scratch tasks all together.

- Can you draw any conclusions from what you've done?
 - You should include both negative and positive points; they will not count against your project mark. It is highly recommended that you include the last three items from the list above. Also ensure that you discuss the area you can identify for improvement after your iteration 3. Make sure your presentation has a recognizable conclusion; don't just trail off at the end.

Bug 1:

Problem report number	2024-03-21-001
Reported by	Vrushank Vaghani (tester)
Date reported	March 21, 2024
Program (or component) name	Registration of Parent and Child
Release number	1.0
Version (build) identifier	1.0.0
Configuration(s)	Database must be set up.
Report type	Functional issue
Can reproduce	Yes

Severity	High
Priority	High
Problem summary	Registration is successful even if no usernames and passwords are entered.
Key words	Registration, Authentication, Bug, Null, Empty, Validation
Problem description and how to reproduce it	Navigate to the registration page of either parent or child of ParentChoreSystem.
	Leave the username and password fields blank.
	· Click on the "Register" button.
	 Notice that the registration process is completed successfully without entering any credentials Then login with blank fields and notice that login is also successful.
Suggested fix	Implement validation checks on the registration form to ensure that both username and password fields are mandatory before allowing registration to proceed. Display an error message prompting the user to fill in both fields if either or both are left empty.
Status	Closed
Resolution	Authenticated username and password by cross-referencing from the database.
Resolved by	Vrushank Vaghani (developer)

Bug 2:

Problem report number	2024-03-21-002
Reported by	Vrushank Vaghani (tester)
Date reported	March 21, 2024
Program (or component) name	Registration of Parent and Child
Release number	1.0
Version (build) identifier	1.0.0
Configuration(s)	Database must be set up.
Report type	Functional issue
Can reproduce	Yes
Severity	Medium
Priority	High
Problem summary	Error message not displayed to the user when registering with an existing username.
Key words	Registration, Authentication, Bug, Username, Error, Backend

Problem description and how to reproduce it	Navigate to the registration page of either parent or child of ParentChoreSystem.
	Enter a username that already exists in the system.
	Complete other registration details and click on the "Register" button.
	Notice that the registration process does not proceed, but no error message is displayed to the user.
Suggested fix	Display an appropriate error message to the user indicating that the entered username already exists, ensuring transparency in the registration process.
Status	Closed
Resolution	Displayed error message to user
Resolved by	Vrushank Vaghani (developer)

Bug 3:

Problem report number	2024-03-21-003
Reported by	Nathan Binu Edappilly
Date reported	March 22, 2024

Program (or component) name	Parent Account GUI
Release number	1.0
Version (build) identifier	1.0.0
Configuration(s)	[Not Applicable]
Report type	Error not being presented
Can reproduce	Yes
Severity	Low
Priority	Medium
Problem summary	Child deletion is still successful when no child selected in the first place instead of showing error
Key words	Deletion, Bug, Null, Validation, Frontend

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Problem description	1. Open the Parent Account GUI.
and how to	2. Navigate to the child deletion section.
reproduce it	3. Attempt to delete a child without selecting any child from the dropdown menu.
	4. Notice that the deletion process proceeds without presenting any error message.
	See how child deletion takes place after selecting no child, in certain circumstances this may occur and for this reason, if this proceeds and the parent continues with the use of rest of the app, they may assume that after this, that the child has already been removed, when in reality no child was actually removed. Therefore, with this bug fix, the parent will know whether or not they made a selection of child to be removed in the first place.
Suggested fix	Implement validation to ensure that a child is selected before proceeding with the deletion process. If no child is selected(meaning if selectedchild = null), display an error message prompting the user to choose a child from the dropdown menu.
Status	Closed
Resolution	Created if statements to check if the selected chill is equal to null and to prompt the user to select a child.
Resolved by	Nathan Binu Edappilly (developer)

Problem report number	2024-03-21-004
Reported by	William Moran
Date reported	2024/03/21
Program (or component) name	Proof of Completion
Release number	1.0
Version (build) identifier	1.0.0
Configuration(s)	Not Applicable
Report type	Design issue
Can reproduce	Yes
Severity	Low
Priority	Medium
Problem summary	Can't mark a chore as not completed in case the child pressed the wrong chore to mark as completed.
Key words	Uncompleted, child, button

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Problem description and how to reproduce it	-Navigate to the child account
	 -A child clicks on a chore to complete and they accidentally click on one that they have not yet completed physically and press the mark as a completed button.
	-The child has no way of changing the status back so that it says it is not completed so they know to complete it in the future.
Suggested fix	Have a button that says mark as not completed that allows it to change the status of the chore to not completed.
Status	Open
Resolution	[To be filled by the project manager]
Resolved by	Nathan Binu Edappily (Developer)

Bug 5:

Problem report number	2024-03-23-001
Reported by	Adam Raihan (tester)
Date reported	March 23, 2024
Program (or component) name	Parent Account GUI

Release number	1.0
Version (build) identifier	1.0.0
Configuration(s)	Database must be set up.
Report type	Design issue
Can reproduce	Yes
Severity	Low
Priority	[assigned by devs/proj. manager]
Problem summary	If user clicks 'add child' button, but then changes their mind and cancels it, an error message "Please enter a valid child username!" is displayed.
Key words	Parent Account, Bug, Validation
Problem description and how to reproduce it	 Login to parent account Click the "Add Child" button Click on the "Cancel" button or the red x in the corner. Notice that the message "Please enter a valid child username!" is displayed.

	Implement validation checks in the Parent Account GUI class where the message "Please enter a valid child username!" is only displayed when the user clicks the 'Ok' button with an invalid child account in the text field.
Status	Open
Resolution	[To be filled by the project manager]
Resolved by	[To be filled by the project manager]

Bug 7:

Problem report number	2024-03-23-002
Reported by	Adam Raihan (tester)
Date reported	March 23, 2024
Program (or component) name	Parent Account GUI
Release number	1.0
Version (build) identifier	1.0.0
Configuration(s)	Database must be set up.
Report type	Design issue

Can reproduce	Yes
Severity	Low
Priority	Low
Problem summary	Chores fields do not reset to blank when parent creates new chore
Key words	Chore Creation, Bug, Frontend
Problem description and how to reproduce it	 Login to a parent account Create a chore by first filling in name, category, time, and payment fields, then clicking 'Create Chore' button Notice that the fields in every category remain filled in with previous entries, even after that chore was created.
Suggested fix	After a chore is completed, reset all fields in the Chore Creation section so that they are blank every time a new chore is created
Status	Closed
Resolution	Reset Chore Fields
Resolved by	Vrushank Vaghani (developer)

Bug 9:

Problem report number	2024-03-24-001
Reported by	Harmandeep Arneja (Tester)
Date reported	March 24th, 2024
Program (or component) name	Database For Storing User Information
Release number	1.0
Version (build) identifier	1.0.0
Configuration(s)	Database must be set up
Report type	Functional Issue
Can reproduce	Yes
Severity	Low
Priority	Medium
Problem summary	When a parent account attempts to check the balance without having any child accounts associated with it, the system generates an error, as it fails to locate any child usernames in the database.

Key words	Check Balance, Child Account, Error, Database, Error Message
Problem description and how to reproduce it	Scenario: Checking Balance with No Child Accounts 1) A parent attempts to check the balance associated with their child accounts. Steps to Reproduce: 2) Log in to the ParentChoreSystem application as a parent with valid parent credentials. 3) Click on the check balance button on the main parent page when no children have been added. • Expected Result: The system should display the balance associated with the parent's child accounts or should tell the user to add a child to view his/her balance. • Actual Result: The system generates an error, indicating that it could not locate any child usernames in the database.
Suggested fix	Modify the check balance functionality to handle cases where no child accounts are associated with the parent account. Instead of querying the database for child usernames directly, implement a check to verify if any child accounts exist before attempting to retrieve their balances. If no child accounts are found, display a user-friendly message indicating that no balances are available.
Status	Open
Resolution	[To be filled by the project manager]
Resolved by	[To be filled by the project manager]