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User Story	Acceptance Criteria	Testing Cases		
		Normal	Boundary	Abnormal
As a parent user, I want to register so I can use the application.	Users can successfully do register operation and get into the parent dashboard page. Before successfully registering, users need to fill in all text fields, including email address, password, name, and date of birth. In addition, email addresses must be in valid format. If a user does not input information in any text field and does not input correct format information, the application system will prompt for an error message and red mark text fields with null values or incorrect formatting information until the user enters the correct formatting information in all text fields before logging in.	Ask user to successfully register an account	Ask user to leave one of the text field blank and click register button	Ask the user to leave all the text fields and input incorrect email addresses in the email text field.

As a parent user, I want to use email and password to login, so that I can use the application	Users can successfully do login operation and get into the parent dashboard page. Before clicking the login button and successfully login, the user should input the correct and corresponding pair of email and password. If the user doesn't input the email address or password in the corresponding textfield, the application system will show an alert and ask the user to correct the password and email.	Ask user to first successfully register and then login using correct email and password	After the user successfully registers, ask the user to input an incorrect email or password, of both of them incorrect. Ask the user to leave two text fields blank.	After the user registers successfully, ask the user to input the correct password in the email field, input the correct email address in the password textfield.
As a parent, I want to login using Apple ID, so that I can go into the parent dashboard page without doing register	Users can login successfully and get into the parent dashboard page if they login in using Apple ID and use valid Apple ID. Users need to click the apple login icon at the bottom left of the login button, and input the valid apple account, including email, and password, or use the fingerprint(based on the physical device). Once	Ask the user to input valid Apple ID and see whether he or she can go into the parent dashboard page.	Ask the user to input incorrect email or password and try not to select whether to hide the email after input correct email and password and try to login.	Ask the user to press apple login button and press cancel login with apple button several time to see whether can successfully go into parent dashboard page

	users input the correct email and password, they need to decide whether to hide or show their email, then they can go into the parent dashboard page. press the cancel button in the apple login sheet will not treat as successful login and will back to login page			
As a parent, I want to login using Google account, so that I can go into the parent dashboard page without doing register	Users can login successfully and get into the parent dashboard page if they login in using Google and use a valid Google account. Users need to click the google login icon at the bottom middle of the login button, and input the valid google account, including email and password. Once users input the correct email and password, they can go into the parent dashboard page. press the cancel button in the google login dialog will not treat as	Ask the user to input valid google account and see whether he or she can go into the parent dashboard page	Ask the user to input an incorrect email or password or both of them to see whether they can go into the parent dashboard page.	Ask the user to press google login button and press cancel login with google button several times to see whether can successfully go into the parent dashboard page. Ask the user to create a new account and try to use that new account to login.

	successful login and will back to login page			
As a parent, I want to login using facebook account, so that I can go into the parent dashboard page without doing register	Users can login successfully and get into the parent dashboard page if they login in using facebook and use a valid facebook account. Users need to click the facebook login icon at the bottom right of the login button, and input the valid facebook account, including email or phone number and password. Once users input the correct email, phone number and password, they can go into	Ask the user to input valid facebook account and see whether he or she can go into the parent dashboard page	Ask the user to input an incorrect email or password or phone number or both of them to see whether they can go into the parent dashboard page.	Ask the user to press facebook login button and press cancel login with facebook button several time to see whether can successfully go into parent dashboard page

	the parent dashboard page. press the cancel button in the facebook login dialog will not treat as successful login and will back to login page			
As a parent, when I go into parent dashboard page, I want to see all the registered child in my family, so that I can click their card and see the detail	When users are in the parent dashboard, they should see a number of cards which represent specific children in the user's family. Every child card is made up with child avatar, child current gained point, child achievement point, child current gained prize level and child name, when tapping this card , the application will go to the profile page of this child. Users can scroll down to see all the child cards, however if there is no	Give the user an existing account which already has 3 children in this account. Ask the user to login using the provided account and check whether there are three child cards in the parent dashboard page, and check if the user can click these cards to go into the child profile page.	Ask the user to register a new account and login using this account, check if there is not any child in the current parent dashboard page. Give the user an account which has 10 children and ask the user to login using this account, check whether the user can scroll down the page and see all 10 children.	Ask the user to login using a provided account which has 3 children, when the user goes into the parent dashboard page, developers start to delete the child collection in the current account, and ask the user to tell whether they will see a specific child card disappear.

	registered child under the current user, no child card will be shown in the parent dashboard page.			
As a parent, I want to add a child in my account, so that this child can login and I can see and edit this child information	Users can click the plus button at the top right of the parent dashboard page and select Add a child. The application will bring users to add a child page, users need to input the child name, date of birth and choose a default theme for the child. Child name and date of birth cannot be None,and if users do not input the child name and date of birth, the text	Ask the user to login as a parent and click the plus button to add a child. Input the child name and date of birth, and choose the theme for the child, then click add button and check if the new child will show in parent dashboard	Ask the user to login as a parent and click the plus button to add a child, but do not type the child name and date of birth to see what will happen.	Ask the user to login as a parent and add a child with the same name as another existing child to see what will happen.

	field will display a red warning box, indicating that users need to enter content. users will use the default theme if they do not select a theme			
As a parent, I want to add a chore to my account, so that I can assign point of this chore to children in their profile page	Users can click the plus button and select the add chore at the top right of the parent dashboard page. The application will bring users to add a chore page. Users need to fill in the chores name in the chore name text field and upload an image from the user's device to be chore image. Both the name and image cannot be nothing, otherwise nothing will happen when clicking Add chore button. If users fill in valid chore name and	Ask the user to click the plus button and select the add chore at the top right of the parent dashboard page. Input chore name and upload an image, then tap add chore button. Once the application is back to the dashboard, go to the parent account page to check the result.	Ask the user to click the plus button and select the add chore at the top right of the parent dashboard page. However, do not fill in names or do not upload images then click Add chore button to see what happens.	Ask the user to click the plus button and select the add chore at the top right of the parent dashboard page, however, input the same name and image with another existing chore, tap the add chore button and see what will happen.

	upload image, chore will be successfully added and users will be automatically back to the parent dashboard page.			
As a parent, I want to make a contract with specific child, so that child can do the chore and get the points	Users can tap one specific child card and click the plus button at the top right of this child profile page, and select the add contract. The application will bring users to add a contract page. The max point can only be integer, and every reward point cannot be bigger than max point, as well as the total of points from different levels cannot be bigger than max point. The description of the contract and be none.	Ask users to login as a parent and click a specific child card in the parent dashboard page, then input the max point, the awards and corresponding point in different levels, and click the add contract button , and check whether the point, achievement and award has been changed in this child profile page.	Ask users to login as a parent and click a specific child card in the parent dashboard page, then input the max point. However, input a bigger point for a reward in the first level of the contract, click add contact button to see what happens.	Ask users to login as a parent and click a specific child card in the parent dashboard page, then input a string in the max point text field to see what will happen.

As a parent user, I want to get QR code of specific child, so that child user can scan this QR code to login in on this device	Users can click a specific child card to go into his profile page, and then click the plus icon at the top right of his profile page, then select QR code Scan. The application will bring the user to a new page with QR code of this child and instructions that tell this child to use his own device and scan this QR code to login. There will not be invalid QR code shown on this page. All QR codes for different child are different	Ask the user to login as parent and click a specific child card, then tap the plus button at the top right and selectQR code scan. Check whether it will jump to a new page with QR code and instruction	Ask the user to login as parent and click a specific child card, then tap the plus button at the top right and selectQR code scan. Then add another child with the same name, date of birth and theme of the previous selected child, then check whether two QR codes are the same.	Ask the user to login as parent and click a specific child card, then tap the plus button at the top right and select QR code scan. However, disconnect the internet before jumping to a new page with QR code and instruction, then click select QR code scan to see whether valid OR code and instruction will be shown.

As a parent user, I want to assign points of specific chore to specific children, so that child can get the points he deserve.	Users can click a specific child card to go into his profile page, and then click the plus icon at the top right of his profile page and tap assign chores. A dialog will come out, and show all chore users have added using the add chore function. Users can tap the 1,2 or 3 point button to assign the points of one chore or multiple chores to their children. tap close button in the dialog will close the assigned chores dialog regardless of user select point of the chore. When clicking the assign button, the dialog will be closed and the corresponding finished chores card will be shown under Finish chores icon in this child profile page.	Ask the user to login as parent and click a specific child card, then tap the plus button at the top right and select assign chore. Assign 3 points to multiple chore and click assign, then check whether it shows all correct finished chores cards in this child profile page.	Ask the user to login as parent and click a specific child card, then tap the plus button at the top right and select assign chore.Test these things: click points of some chore and tap close; not click any point of all chores then click Assign.	Ask the user to login as a parent with existing chores. Delete some chore collections in parent firebase, and click a specific child card, then tap the plus button at the top right and select the assigned chore. Check whether the deleted chore collections can still show in the pop up window.

As a parent user, I want to edit specific child information so that the child will not show incorrect information on my application	Users can click a specific child card in the parent dashboard page. users can tap the edit menu button under this specific child's avatar and a sheet will jump up. Users can input a new name, new date of birth, new theme and new avatar image to update this child information. All users' new avatar, new name, new date of birth and new theme must be filled in to corresponding text fields, otherwise alert will be shown on corresponding text field. After inputting all valid value in the text fields, user can tap Update button to update information, and application will back to parent dashboard page with updated information child card.	Ask users to login as a parent and go into a specific child card and click edit profile page to update this child information, then check whether their information has been updated in the parent dashboard page.	Ask users to login as a parent and go into specific child card and click edit profile page to update this child information, however leave some text fields or all text fields blank and click the update button to see whether the application will show alerts.	Ask the user to login as a parent and go into a specific child card and click edit profile page to update this child information, however, input the same information with an existing child and click update button to see whether the information of this child will successfully change.

As a parent user, I want to see and edit my information so that I will not show incorrect information on my application	Users can tap the parent account icon at the bottom right of the navigation bar and go into the current parent user account page to see user information, users can tap the edit menu button under user avatar and a sheet will jump up. Users can input their new name, new date of birth, new theme and new avatar image to update their information. All users' new avatar, new name, new date of birth and new theme must be filled in to corresponding text fields, otherwise alert will be shown on corresponding text field. After inputting all valid value in the text fields, user can tap Update button to update information	Ask users to login as a parent and go into their account page and click edit profile page to update their information, then check whether their information has been updated in the parent dashboard page and their account page.	Ask users to login as a parent and go into their account page and click edit profile page to update their information, however leave some text fields or all text fields blank and click the update button to see whether the application will show alerts.	Ask users to login as a parent and go into their account page and click edit profile page to update their information, however input the same information with an existing parent user and click update button to see whether the information of this user will successfully change.

As a child user, I want to scan my QR code page to login so that I can go into child dashboard page	Users can use the parent device and scan the corresponding QR code to login.User need to go to the original login page on its device and click the scan QR code button at the top right, and use the system qr code scanner to scan the qr code. Once users successfully scan the QR code, it will directly bring the user to the child dashboard page , and current user information and other child cards in the user's parents account will be correctly shown. If successfully scan the qr code, the application will do nothing and maintain on original login page	Ask the user to use qr code on his parents' device and click the top right button in the login page to scan this code, check whether the application on the user's device can go into the child dashboard page.	Ask the user to use qr code on his parents' device and click the top right button in the login page to scan this code, however close the qr code scanner when scanning to see whether the application is still in the original login page.	Ask the user to use qr code on his parents' device and click the top right button in the login page to scan this code, however before scanning this qr code delete the collection of this child in firebase, then scan the code and see what will happen.

As a child user, I want to see other child detail information, so that I can know the information from them	Users can tap the specific child card in the child dashboard page and see the specific children's details, including their name, gained point, achievement, reward, and finished chores information, User cannot edit other child personal information.	Ask the user to login as a child, which has another child user under his parents account, then go into the child dashboard page and click specific child card to view the details.	Ask the user to login as a child, which has another child user under his parents account, them go into the child dashboard page and click specific child card to view the details, then tap anything to try to modify current child information.	Ask the user to login as a child which has another child user under his parents account. Delete another child collection in his parent account and check whether the current child user can still see the deleted child card in his child dashboard page.
As a child user, I want to see and edit my detail information so that I can make sure my information can correctly shown in my application	Users can tap the child account icon at the bottom right of the navigation bar and go into the current child user account page to see user information, users can tap the edit menu button under user avatar and a sheet will jump up. Users can input their new name, new date of birth, new theme and new avatar image to update their information. All users' new avatar, new name, new date of birth and new	Ask users to login as a child and go into their account page and click edit profile page to update their information, then check whether their information has been updated in the child dashboard page and their account page.	Ask users to login as a child and go into their account page and click edit profile page to update their information, however leave some text fields or all text fields blank and click the update button to see whether the application will show alerts.	Ask the user to login as a child and go into their account page and click edit profile to update the information, however input the same information with an existing child user and click update button to see whether the information of this user will successfully change.

	theme must be filled in to corresponding text fields, otherwise alert will be shown on corresponding text field. After inputting all valid value in the text fields, user can tap Update button to update information			
As a child user, I want to log out to current application, so that I can login again	Users can click the account icon at the bottom right of the navigation bar and go into their child personal information page, and click the plus button at the top right of the page and tap sign out selection. This will direct the user to the original login page. User can only sign out when taping sign out selection in child personal page, when user is using the software, it will	Ask user to login as a child and click the child account page at the bottom right of the navigation bar and click sign out selection at the top right of the child account page, to see whether the application is successfully log out	Ask the user to login as a child and ordinary use the application for about 10 minutes, to see whether it will automatically log out. Ask the user to use some function, to see whether the application will automatically log out.	Ask the user to login as a child and ordinarily use the application but in some minutes disconnect the internet to see what will happen. Ask the user to unexpectedly exit the application when using the application to see what will happen.

	not be automatically sign out unless there is some technical issue			
As a parent user, I want to log out to current application, so that I can login again	Users can click the account icon at the bottom right of the navigation bar and go into their parent personal information page, and click the plus button at the top right of the page and tap sign out selection. This will direct the user to the original login page. User can only sign out when taping sign out selection in parent personal page, when user is using the software, it will not be automatically sign out unless there is some technical issue	Ask user to login as a parent and click the parent account page at the bottom right of the navigation bar and click sign out selection at the top right of the parent account page, to see whether the application is successfully log out	Ask the user to login as a parent and ordinary use the application for about 10 minutes, to see whether it will automatically log out. Ask the user to use some function, to see whether the application will automatically log out.	Ask the user to login as a parent and ordinary use the application but in some minutes disconnect the internet to see what will happen. Ask the user to unexpectedly exit the application when using the application to see what will happen.