**Bambino Brander:**

**Picking Baby Names**

**Made Easy!**

A Software Requirements Specification

Document for a Baby Name Application

Written By:

Students in CS 364 Section 04

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1. **Introduction**
   1. Purpose

* The “Bambino Brander” (hereafter referred to as “the application”) is a mobile device application that makes the difficult task of choosing a name for a newborn child more manageable. The application will present users with names and will allow them to manage lists of names and rank them according to their liking. These lists can be shared with other individuals to compare against their lists in an attempt to find names that all parties can agree upon.
  1. Scope
* Choosing a baby name is something that many people struggle with. There are so many names to choose from it can be overwhelming. This challenge is compounded when multiple people need to come to an agreement for a name. The application aims to solve these challenges by presenting the users with baby names as well as allowing the users to rate them according to their tastes, finally users can make their lists available to one another for comparison to see which names all parties like. The application seeks to do this in as simple a manner as possible enabling users to compare names easily and prevent any difficulties in managing and comparing individual lists.
  + 1. Include
* GUI
* Dynamic database of gender and nongender specific names
* Secure Authentication for user login and account retrieval
* Method to link accounts
* Share feature via linked social media accounts
  + 1. Exclude
* Hardware
* Defined internet protocols
* Remote connection process
* Predictive databases for all default users
* Ability to imported user created databases
* User added names with descriptive fields
  + 1. Benefits
* The application is a tool that shall help users with the challenge of discovering names that multiple parties like. With name suggestions and rating systems, users may sort through names and store their favorite names for comparison with other users. This helps to filter through names and arrive at the perfect one for a baby.
  + 1. Requisites
* A mobile device that is running at least iOS 11 or Android 8.
* Internet connectivity for that mobile device.
* 40MB of storage or greater capacity on mobile device.
  1. Product overview
     1. Product perspective

Diagram

Description automatically generated

Figure 1

* + 1. System Interface
* A MySQL database shall be used for saving and retrieving data in the cloud.
* An SQLite shall be used for saving and retrieving data on the device.
  + 1. User Interface
* A GUI Interface shall be used for user interaction.
  + 1. Hardware Interface
* The touchscreen of the mobile device shall be used for user input.
  + 1. Software Interface
* External websites containing names shall be accessed.
  + 1. Communication Interface
* TCP/IP protocols shall be used.
  + 1. Memory Constraints
* Memory constraints shall be determined by Apple iOS [1] or Google Android performance guidelines [2].
  + 1. Operations

N/A

* + 1. Site Adaptation Requirement

N/A

* + 1. Product functions
* The application shall provide users with potential baby names
* The application shall store and retrieve a list of baby names previously selected.
* The application shall provide information about baby names as it is presenting them.
  + 1. User characteristics
* Potential Parents
* Soon-to-be Parents
* Family of potential/ soon-to-be parents
* Writers
  + 1. Limitations
       1. Hardware Limitations
          1. The application shall only operate on mobile devices as referred to in the definitions section.
       2. Safety and Security Considerations
          1. The application shall secure the user information using a twelve-character password protection and finger printer scanning.
  1. Definitions

|  |  |
| --- | --- |
| **Term** | **Definition** |
| **Application** | The software to be used on a mobile device |
| **Device or Mobile Device** | The piece of equipment on which the application will run. All the references for “device” or “devices” are for Apple devices running iOS 11 or greater and Android devices running Android 8 or greater. |
| **Cloud Storage** | Data is maintained, operated, and managed by a cloud storage service provider on a storage server that is built on virtualization techniques [3]. |
| **Fingerprint Scanning** | A security process in which a user’s fingerprint is scanned using their Device’s fingerprint scanner if it has one. |
| **Skip** | A feature that allows users to move on to another option for a baby name, ignoring the like or dislike option. |
| **List** | A list of baby names. |
| **Personal List** | A list created by a user comprised entirely of baby names that have been liked in Swipe Mode. |
| **Link** | When two lists are linked, a third list is created showing names that are present in both original lists. |
| **Linked List** | The resulting list as a result of linking two lists. |
| **Master List** | A list of all potential baby names that are displayed to the user in Swipe Mode. By default, it matches the Server List. Names disliked in Swipe Mode are removed from the Master List. |
| **Server List** | All baby names stored on the server. |
| **Swipe** | A feature that allows the user(s) to drag into a direction to like or dislike a given baby name displayed in Swipe Mode. [[SW1]](https://outlook.office.com/mail/sentitems/id/AAQkAGFiMDVjMmJmLWQ4NTYtNGE4MC04ZDc2LWVhMDc0MGE2N2Y0OAAQAMwnAhmG9p5HqrU9jIT1xuM%3D#_msocom_1) Subsequent requirements will identify what will be done based on the direction of the swipe. |
| **Swipe Mode** | A mode that only displays a single baby name at a given time on the baby name list. The user can like or dislike each name shown by swiping in a particular direction. |
| **List Mode** | A mode that displays an entire list of baby names available in a readable format. |
| **Vote** | Like or dislike a given baby name on a user(s) personal list, Master list, and any other lists. |
| **Rank** | Place the baby name into a list according to user(s) preference. Can be adjusted in List Mode. |

1. **References** 
   1. [1]Oxford Dictionaries – Cortana – Bing Translator, Available at: https://www.bing.com/
   2. [2] Wikipedia, Available at: https://en.wikipedia.org/wiki/Wikipedia/
   3. [3] Techopedia “Cloud Storage” July 18, 2017, available at: https://www.techopedia.com/definition/26535/cloud-storage
   4. [4] Rouse M., Rosencrance L., Loshin P. & Cobb M. “Two-factor authentication (2FA),” Tech Target, Available Online: https://searchsecurity.techtarget.com/definition/two-factor-authentication

1. **Specific Requirements**
   1. External Interface
      1. The application shall open to a welcome screen where the user shall be directed to either login to the application or register a new account.
         1. For the register a new account option, the user shall be directed to enter the following unique inputs: Username, Email address, Password.
         2. For the Login option, the user shall be directed to enter their username and password and they must match a username and password that is stored in the database for the application.
            1. On the login screen, the application shall provide a “forgot username” button underneath the “login” button. When clicked, this will direct the user to the “forgot username” page.

The application shall direct the user to enter their email address and if the email address exists in the database, an email message will be sent to the provided address to reset the user’s password. If the email entered cannot be found in the database, the application shall display the following error message: “No account linked to that address.”

* + - * 1. On the login screen, the application shall provide a “forgot password” button underneath the “login” button. When clicked, the button will direct the user to the “forgot password” page.

The “forgot password” page shall have a text box that directs the user to enter their username and the application shall check to see if the username is in the database.

If the username is in the database, an email message shall be sent to the user’s email address associated with the username with a description of how to reset the user’s password. There shall also be a link in the email that will take the user to a screen on the application that will help them to reset their password. There will be a message on the screen that says, “Please go check your email and follow the instructions there to reset your password.”

If the username is not in the database, the application shall show the user the same message as if the email did match one in the data base. The message shall say, “Please go check your email and follow the instructions there to reset your password.” This is done so that the user cannot randomly enter different usernames in an attempt to find a valid username.

* + 1. The application shall then direct the user to choose a gender, male, female, or gender-neutral (see 3.2.5).
    2. The application shall then display the master list of names and the user shall be given the option to filter those names into different categories (see 3.2.6).
       1. The names shall be given to the user in a random order to prevent the user from feeling fatigued by having to view large amounts of names starting with the same letter as would be the case should the names be given to the user in an alphabetical order.
    3. The application shall show a name on the interface where the user is given the following options:
       1. Swipe Right
* The Swipe right option will add the given name to the users specified list.
  + - * 1. The name will be compared to a list of names selected by a linked user account. If the name matches any name on the linked user’s account, then a pop-up window will display a “matched” notification. The pop-up window will give the user the following options:

View the list of all the matched names between linked accounts.

Return to the screen that presents new names.

* + - 1. Swipe Left
* The Swipe Left option will delete the given name from the master list of names provided to the user.
  + - 1. Skip Status
* The application shall provide a button that the user can press when they don’t want to apply a “swipe” status to the name and would like to see the name again after the specific list of names has been exhausted.
  + - * 1. After all the names in a specific list has been exhausted, the user shall be presented with all the names they skipped with the same options to “swipe right,” “swipe left,” or “skip.”
    1. The user shall have the ability to switch back and forth from the swiping format to a format where the user has the ability to see the complete master list of names.
    2. On all screens, the application shall provide the user with a link that gives the user the ability to see their account information.
    3. The application shall provide the ability to change certain account preferences of the currently logged in account. The user account shall be cloud based so that the user shall have the ability to log into a different device that matches the specifications of the application (see section 1.2.4) and access their account information.
       1. Within the account preference tab, there shall be an option to add a profile picture which will be unique to each individual profile account. The user shall be able to change it as they see fit.
       2. Within the account preference screen, there shall be an option to click “Link Account”, which will lead the user to an input area where they shall have the ability to enter a user account name of a separate user account in order to link the two accounts.
          1. The application shall have the ability to compare lists of saved names from each linked account and find matches that shall be put into a separate matched names list that can be accessed by all linked accounts.
          2. The lists shall be displayed on the user’s screen in the order that they were matched. Specifically, the first match shall be number 1, the second match number 2 and so on.
       3. Within the account preference tab, there will be an option to sign out of the current account. When signed out, the application will take the user to the log in page.
    4. The application shall provide users with a menu design that includes the following attributes:
       1. Font size shall be equal to or greater than 16 point.
       2. Buttons shall be clearly labeled for intended use.
       3. Color scheme shall be limited to the four shades, #80ccff (blue), #ffccff (pink), #ffffff(white) and #000000(black).
          1. The user shall have the ability to choose a “dark” theme which is define as all the areas where the screen would normally be white are set to black and vice versa. All other colors are kept the same.
  1. Functional Requirements
     1. There shall be 3 gender categories of names.
        1. Female
           1. Names given to female babies 90% of the time or greater based on available public records of past populations in the United States of America for the last 100 years.
        2. Male
           1. Names given to male babies 90% of the time or greater based on available public records of past populations in the United States of America for the last 100 years.
        3. Gender-Neutral
           1. Names used by both genders 45-55% of the time based on available public records of past populations in the United States of America for the last 100 years.

there shall also be a list of alternate spellings for the name and the related gender use for each gender-neutral name. For example, Aaron is used for a male name 99.7% of the time, while Erin is used for a female name 97.7% of the time.

* + 1. The application shall have the ability to sort the master list of names into several other categories defined as follows:
       1. Seasonal
          1. The Seasonal names category shall be a list of names that are associated with different times in the year or holidays (ex. August, Autumn, Christmas etc.).
       2. Foreign
          1. The Foreign names category shall be a list of 100 names per given country that have the highest rate of occurrence according to the public records of that country for the past 100 years.

The following countries shall be selected for the foreign name’s category: England, France, Russia, Germany, Australia, China, Mexico and Italy.

* + - 1. First Letter
         1. The First Letter category shall give the user(s) the ability to only see names with a chosen letter starting them.
      2. Word Length
         1. The Word Length category shall give the user(s) the ability to only see names with a chosen number of letters in them.
      3. Number of syllables
         1. The Number of syllables category shall give user(s) the ability to only see names with a chosen number of syllables in them.
      4. Biblical
         1. The Biblical category shall give the user(s) a list of all the names of people that are found in the King James version of the Bible.
      5. Popularity
         1. The Popularity category shall show a list of the 100 most used names according to public records from the United States of America for a chosen year from the current year back to the year 1900.
      6. Successful
         1. The Successful names category shall be a list of names of people who have achieved a spot on a list of the 100 wealthiest people in the United States of America for the past 100 years.
      7. Classical
         1. The Classical category shall display names for the user(s) that have remained on the top 100 list of names for the past 100 years.
      8. Famous
         1. The Famous category shall be a list of names of all the celebrities and newsworthy people for the last 100 years.
      9. Historical
         1. The Historical category shall be a list of names of all the people that are typically found in a history textbook.
      10. Location
          1. The Location category shall be a list of names associated with places on a map (ex. Minnesota, Carolina, Dallas etc.).
    1. The application shall have the ability to share the user(s) lists with other accounts of their choosing via account names.
       1. The other account holders shall have the ability to suggest their favorite(s) of the given names and add comments to any name on the list. This can be done from the user(s) view of the users specified list (see 3.9.1.1.1). The user(s) will have the ability from the view of this list to share name(s) with other accounts of their choosing via account names. The user who receives the suggestion from a friend will have the ability to view the name in the same manner they view any other names – I.e. they will be able to swipe left, right, or skip the name suggested to them.
    2. The user shall be given the option to display names alongside of the users last name.
    3. The user shall be given the option to skip a name if the user cannot decide to either swipe right to accept a name to their list or swipe left to delete the name from the master list of names given to the user. The skipped name will remain on the master list of names and will cycle back to the user to evaluate again once all other names have been shown to the user.
    4. The user(s) shall be given the option to dislike names on each other’s lists for accounts that are linked.
    5. The user(s) shall be able to add names to a list that compares to a list of one or more linked user accounts to find matched names.
    6. The user(s) shall be able to and rank names they like in order of their favorite name to their least favorite name.
    7. Each given name will have a button that, when pressed, links to a details page that provides the following information:
       1. Alternative Spellings
          1. Alternative spellings shall be displayed in order of popularity according to the public record of past populations in the United States of America for the last 100 years.
       2. Variations
          1. Variations of names include those that don’t sound the same as the given name but include 1 or more similar syllable sounds.
       3. Pronunciation Guide
          1. Pronunciation guides will display a written version and an audio clip version for the given name.
       4. Background information
          1. The background information shall include the definition of the given name, it’s country of origin, and its popularity according to the public record of past populations in the United States of America for the last 100 years.
       5. Fun Facts
          1. Each name on the master list shall contain one fact about the given name. These facts will come from research by the developer where they will use their discretion on whether or not it can be considered a “fun fact.”
       6. Link to Wikipedia if name exists on Wikipedia
          1. A URL to Wikipedia shall link the user to the external site, https://Wikipedia.org, for the purpose of providing the user with extra information on the given name.
    8. The system shall provide a way for the user to see all previously viewed names on the currently logged in account. A tab will be shown that says “Previously Viewed Names.”
       1. The list of “Previously Viewed Names” shall contain all names previously viewed and their “Swiped” status.
          1. The “Swiped” status shall correspond to the user’s reaction to the name – be it “liked,” corresponding to a swipe to the right, “disliked,” corresponding to a swipe to the left, or “skipped,” corresponding to names that did not receive a swipe but were given a skipped status by pressing the skip button.
          2. The system shall provide a filter in the form of a drop-down menu labeled “Filter Names” for the user to see previously viewed names. There shall be the following options for the filter drop-down menu:
* All previously viewed names (default)
* “Swiped right” or “liked” names
* “Swiped left” or “disliked” names
* Skipped names
  + 1. The application shall have the ability to store and compare several lists for each user not to exceed 10 lists per account.
       1. List maybe labeled so the user knows if the lists are for the same baby, different babies from different days, or different babies being born on the same day in multiple sets (twins, triplets etc.).
    2. The application shall have the ability to generate a URL to share user’s list of names that can be view externally with the following platforms:
* Facebook
* Instagram
  + 1. The application shall have the ability to set a due date, or the date a child is expected to be delivered, in their settings. Upon the arrival of the due date, a congratulations notification will be sent to the user and all linked accounts.
    2. The user(s) shall have the ability to lock favorite names.
       1. The term “lock” shall be defined as saving a name to a separate list that cannot be deleted from the master list and can be shared with linked accounts.
    3. The user shall have the ability to enter names of previous children where the application will remove all names from the master list that match the previous children’s names and any variations that are linked to those names.
  1. Usability Requirements
     1. The user(s) shall have the ability to vote for favorite baby names between all linked accounts.
        1. The application shall implement a voting system.
        2. Users in a group shall be able to vote liked names.
  2. Performance Requirements
     1. The application shall have the ability to fetch required data from the internet.
  3. Logical Database Requirements
     1. The application shall include a database for the following functional requirements:
        1. A list of all account users that includes an id name, password and email.
           1. The application shall include the options to save and/or update the user’s account settings.
        2. A master list of all unique names according to public records of past populations in the United States of America for the past 100 years with the ability of filter those names according to the selected category.
        3. Each registered user account’s list(s) of names not to exceed 10 lists.
        4. The application shall keep track of how many times each name has received a like from all past and current users.
        5. The application shall keep a database of pictures of people who have achieved a high level of fame and link them to the names on the master list based on their names.
  4. Design Constraints

N/A

* 1. Software System Attributes
     1. The application shall create an account for each user.
        1. Each account shall require the user to create a unique username and password. The user shall be prompted to enter these credentials each time they start the application.
     2. The application shall allow the user to sign to into their account by scanning their fingerprint if the function is available on their mobile device. Otherwise, the user will be given the option to sign into their account by entering their username and password.
        1. The application shall use the same fingerprint credentials that are stored locally on the device.
     3. The application shall use RSA encryption methods when storing a username and password.
     4. The application shall use RSA encryption methods with all network traffic.
     5. The application shall offer cloud storage for the data of each account. This means a user’s account information will not be stored locally on the device. It will be stored on a cloud database (see 1.4 Definitions). This shall allow the user the ability to log onto their account and access their account information from any device.
     6. The application shall include the ability for “text to speech” using the Google “text to speech” web API for the pronunciation guide audio clip functional requirement.
     7. The application shall notify all linked account users when a name match has been made from the given lists.
  2. Supporting Information

N/A

1. **Verification**
   1. External Interface
      1. If the application opens to a welcome screen where the user is directed to either login to the application or register a new account, it passes verification. Otherwise, it fails verification.
         1. If, for the register a new account option, the user is directed to enter the following unique inputs: Username, Email address, Password, it passes verification. Otherwise, it fails verification.
         2. If, for the Login option, the user is directed to enter their username and password and if they must match a username and password that is stored in the database for the application, it passes verification. Otherwise, it fails verification.
            1. If, on the login screen, the application provides a “forgot username” button underneath the “login” button and if when clicked, this will direct the user to the “forgot username” page it passes verification. Otherwise, it fails verification.

If the application directs the user to enter their email address and if the email address exists in the database, and if an email message is sent to the provided address to reset the user’s password, it passes verification. Otherwise, it fails verification. If the email entered cannot be found in the database, and if the application displays the following error message: “No account linked to that address,” it passes verification. Otherwise, it fails verification.

* + - * 1. If, on the login screen, the application provides a “forgot password” button underneath the “login” button and if when clicked, the button directs the user to the “forgot password” page, it passes verification. Otherwise, if fails verification.

If the “forgot password” page has a text box that directs the user to enter their username and if the application checks to see if the username is in the database, it passes verification. Otherwise, if fails verification.

If the username is in the database, and if an email message is sent to the user’s email address associated with the username with a description of how to reset the user’s password, it passes verification. Otherwise, if fails verification. If there is a link in the email takes the user to a screen on the application that helps them reset their password and if There is a message on the screen that says, “Please go check your email and follow the instructions there to reset your password,” it passes verification. Otherwise, it fails verification.

If the username is not in the database, and if the application shows the user the same message as if the email did match one in the data base, if passes verification. Otherwise, if fails verification.

* + 1. If the application then directs the user to choose a gender, male, female, or gender-neutral, it passes verification. Otherwise, if fails verification.
    2. If the application displays the master list of names and the user is given the option to filter those names into different categories, it passes verification. Otherwise, it fails verification.
       1. If the names are given to the user in a random, it passes verification. Otherwise, it fails verification.
    3. If the application shows a name on the interface where the user is given the following options, it passes verification, else if fails verification:
       1. Swipe Right
* If the Swipe right option adds the given name to the users specified list, it passes verification. Otherwise, if fails verification.
  + - * 1. If the name is compared to a list of names selected by a linked user account, if passes verification. Otherwise, it fails verification. If the name matches any name on the linked user’s account, and if a pop-up window displays a “matched” notification, and if the pop-up window gives the user the following options, it passes verification. Otherwise, if fails verification:

View the list of all the matched names between linked accounts.

Return to the screen that presents new names.

* + - 1. Swipe Left
* If the Swipe Left option deletes the given name from the master list of names provided to the user, it passes verification. Otherwise, it fails verification.
  + - 1. Skip Status
* If the application provides a button that the user can press when they don’t want to apply a “swipe” status to the name and would like to see the name again after the specific list of names has been exhausted, it passes verification. Otherwise, it fails verification.
  + - * 1. If, after all the names in a specific list has been exhausted, the user is presented with all the names they skipped with the same options to “swipe right,” “swipe left,” or “skip,” it passes verification. Otherwise, it fails verification.
    1. If, the user has the ability to switch back and forth from the swiping format to a format where the user has the ability to see the complete master list of names, it passes verification. Otherwise, it fails verification.
    2. If, on all screens, the application provides the user with a link that gives the user the ability to see their account information, it passes verification. Otherwise, if fails verification.
    3. If, the application provides the ability to change certain account preferences of the currently logged in account and if the user account is cloud based, it passes verification. Otherwise, if fails verification.
       1. If, within the account preference tab, there is an option to add a profile picture which is unique to each individual profile account, it passes verification. Otherwise it fails verification.
          1. If, within the account preference screen, there is an option to click “Link Account”, which will lead the user to an input area where they shall have the ability to enter a user account name of a separate user account in order to link the two accounts, it passes verification. Otherwise, it fails verification.
          2. If, the application has the ability to compare lists of saved names from each linked account and find matches that shall be put into a separate matched names list that can be accessed by all linked accounts, it passes verification. Otherwise, it fails verification.
          3. If the lists are displayed on the user’s screen in the order that they were matched, it passes verification. Otherwise, it fails verification.
       2. If, within the account preference tab, there is an option to sign out of the current account, and if when signed out, the application takes the user to the log in page, it passes verification. Otherwise, it fails verification.
    4. If the application provides user with a menu design that includes the following attributes it passes verification, else if fails verification:
       1. If the font size is equal to or greater than 16 point it passes verification. Otherwise, it fails verification.
       2. If the buttons are clearly labeled for intended use it passes verification. Otherwise, it fails verification.
       3. If the color scheme is limited to the four shades, #80ccff (blue), #ffccff (pink), #ffffff(white) and #000000(black) it passes verification. Otherwise, it fails verification.
          1. If the user has the ability to choose a “dark” theme which is define as all the areas where the screen would normally be white are set to black and vice versa. All other colors are kept the same. It passes verification. Otherwise, it fails verification.
  1. Functional Requirements
     1. If there are 3 main categories of names, it passes verification. Otherwise, it fails verification.
        1. Female
           1. If the names on the female list are names given to female babies 90% of the time or greater based on available public records of past populations in the United States of America for the last 100 years it passes verification. Otherwise, it fails verification.
        2. Male
           1. If the names on the male list are names given to male babies 90% of the time or greater based on available public records of past populations in the United States of America for the last 100 years it passes verification. Otherwise, it fails verification.
        3. Gender-Neutral
           1. If the names on the gender-neutral list are those used by both genders 45-55% of the time based on available public records of past populations in the United States of America for the last 100 years it passes verification. Otherwise, it fails verification.

If there is also a list of alternate spellings for the name and the related gender use for each gender-neutral name it passes verification. Otherwise, it fails verification.

* + 1. If the application has the ability to sort the master list of names into several other categories defined as the following it passes verification, else if fails verification:
       1. Seasonal
          1. If the seasonal names category includes a list of names that are associated with different times in the year or holidays (ex. August, Autumn, Christmas etc.). It passes verification. Otherwise it fails verification.
       2. Foreign
          1. If the Foreign names category includes a list of 100 names per given country that have the highest rate of occurrence according to the public records of that country for the past 100 years, it passes verification. Otherwise, it fails verification.

If the following countries are able to be selected for the foreign name’s category it passes verification, else it fails verification: England, France, Russia, Germany, Australia, China, Mexico and Italy.

* + - 1. First Letter
         1. If the First Letter category includes a list of names that shall give the user(s) the ability to only see those with a chosen letter starting them, it passes verification. Otherwise, it fails verification.
      2. Word Length
         1. If the Word Length category includes a list of names that shall give the user(s) the ability to only see names with a chosen number of letters in them, it passes verification. Otherwise, it fails verification.
      3. Number of syllables
         1. It the Number of syllables category includes a list of names that would give the for user(s) to only see names with a chosen number of syllables in them, it passes verification. Otherwise, it fails verification.
      4. Biblical
         1. If the Biblical category gives the user(s) a list of all the names of people that are found in the King James version of the Bible, it passes verification. Otherwise, it fails verification.
      5. Popularity
         1. If the Popularity category shows a list of the 100 most used names according to public records from the United States of America for a chosen year from the current year back to the year 1900, it passes verification. Otherwise, it fails verification.
      6. Successful
         1. If the Successful names category shows a list of names of people who have achieved a spot on a list of the 100 wealthiest people in the United states of America for the past 100 years it passes verification. Otherwise, it fails verification.
      7. Classical
         1. If the Classical category displays names for the user(s) that have remained on the top 100 list of names for the past 100 years, it passes verification. Otherwise, it fails verification.
      8. Famous
         1. If the Famous category shows a list of names of all the celebrities and newsworthy people for the last 100 years, it passes verification. Otherwise, it fails verification.
      9. Historical
         1. If the Historical category displays a list of names of all the people that are typically found in a history textbook, it passes verification. Otherwise, it fails verification.
      10. Location
          1. If the Location category displays a list of names associated with places on a map (ex. Minnesota, Carolina, Dallas etc.), it passes verification. Otherwise, it fails verification.
    1. If the application has the ability to share the user(s) lists with other accounts of their choosing via account names it passes verification. Otherwise it fails verification.
       1. If the other account holders have the ability to suggest their favorite(s) of the given names and add comments to any name on the list, it passes verification. Otherwise, it fails verification.
    2. If the user is given the option to display names alongside of the user’s last name it passes verification. Otherwise, it fails verification.
    3. If the user is given the option to skip a name if the user cannot decide to either swipe right to accept a name to their list or swipe left to delete the name from the master list of names given to the user, and the skipped name remains on the master list of names and cycles back to the user to evaluate again once all other names have been shown to the user it passes verification. Otherwise, it fails verification.
    4. If The user(s) are given the option to dislike names on each other’s lists for accounts that are linked, it passes verification. Otherwise, it fails verification.
    5. If the user(s) are able to add names to a list that compares to a list of one or more linked user accounts to find matched names, it passes verification. Otherwise, it fails verification.
    6. If the user is able to vote and rank names they like in order of their favorite name to their least favorite name, it passes verification. Otherwise, it fails verification.
    7. If each given name has a button that, when pressed, links to a details page that includes the following, it passes verification, else it fails verification:
       1. Alternative Spellings
          1. If alternative spellings are displayed in order of popularity according to the public record of past populations in the United States of America for the last 100 years it passes verification. Otherwise, it fails verification.
       2. Variations
          1. If variations of names include those that don’t sound the same as the given name but include 1 or more similar syllable sounds, it passes verification. Otherwise, it fails verification.
       3. Pronunciation Guide
          1. If a Pronunciation guides displays a written version and an audio clip version for the given name, it passes verification. Otherwise, it fails verification.
       4. Background information
          1. If the background information includes the definition of the given name, it’s country of origin, and its popularity according to the public record of past populations in the United States of America for the last 100 years it passes verification. Otherwise, it fails verification.
       5. Fun Facts
          1. If each name on the master list contains one fact about the given name, it passes verification, else it fails verification.
       6. Link to Wikipedia
          1. If the URL to Wikipedia shall link the user to the external site, https://Wikipedia.org, for the purpose of providing the user with extra information on the given name, it passes verification. Otherwise, it fails verification.
    8. If the system provides a way for the user to see all previously viewed names on the currently logged in account and if a tab is shown that says “Previously Viewed Names,” it passes verification. Otherwise, it fails verification.
       1. If the list of “Previously Viewed Names” contains all names previously viewed and their “Swiped” status, it passes verification. Otherwise, it fails verification.
          1. If the “Swiped” status corresponds to the user’s reaction to the name, it passes verification. Otherwise, it fails verification.
          2. If the system provides a filter in the form of a drop-down menu labeled “Filter Names” for the user to see previously viewed names and if there are the following options for the filter drop-down menu, it passes verification, else it fails verification:
* All previously viewed names (default)
* “Swiped right” or “liked” names
* “Swiped left” or “disliked” names
* Skipped names
  + 1. If the application has the ability to store and compare several lists for each user not to exceed 10 lists per account, it passes verification. Otherwise, it fails verification.
       1. If lists are labeled so the user knows if the lists are for the same baby, different babies from different days, or different babies being born on the same day in multiple sets (twins, triplets etc.), it passes verification. Otherwise, it fails verification.
    2. If the application has the ability to generate a URL to share a user’s list of names that can be viewed externally with the following platforms, it passes verification else, it fails verification:
       - Facebook
       - Instagram
    3. If the application has the ability to set a due date and time in their settings and upon the arrival of the due date, a congratulations notification is sent to the user and all linked accounts, it passes verification. Otherwise, it fails verification.
    4. If the user has the ability to lock favorite names, it passes verification. Otherwise, it fails verification.
    5. If the user has the ability to enter names of previous children and the application it able to match move those names from the master list of names, it passes verification. Otherwise, it fails verification.
  1. Usability Requirements
     1. If the user has the ability to vote between all linked accounts, it passes verification. Otherwise, it fails verification.
        1. If the application implements a voting system, it passes verification. Otherwise it fails verification.
        2. If users in a group are able to vote for liked names, it passes verification. Otherwise, it fails verification.
  2. Performance Requirements
     1. If the application has the ability to fetch required data from the internet it passes verification. Otherwise it fails verification.

* 1. Logical Database Requirements
     1. If the application includes a database for the following functional requirements, it passes verification. Otherwise, it fails verification.
        1. If a list of all account users that includes a name, id and password is in the database, it passes verification, else it fails verification.
           1. If the application includes the options to save and/or update the user’s account settings it passes verification. Otherwise, it fails verification.
        2. If the application includes a master list of all unique names according to public records of past populations in the United States of America for the past 100 years with the ability of filter those names according to the selected category to the database, it passes verification. Otherwise, it fails verification.
        3. If the application includes each registered user account’s list of names not to exceed 10 lists in the database, it passes verification. Otherwise, it fails verification.
        4. If the application keeps track of how many times each name has received a like from all past and current users, it passes verification. Otherwise, it fails verification.
        5. If the application keeps a database of pictures of people who have achieved a high level of fame and links them to the names on the master list based on their names, it passes verification. Otherwise, it fails verification.
  2. Design Constraints

N/A

* 1. Software System Attributes
     1. If the application creates an account for each user, it passes verification. Otherwise it fails verification.
        1. If the application requires each user to create a unique username and password, and if the application prompts the user to enter these credentials each time they start the application, it passes verification. Otherwise, it fails verification.
     2. If the application allows a fingerprint of the user to act as authentication for signing into the user’s account, it passes verification. Otherwise, it fails verification.
        1. If the application uses the fingerprint that is stored locally on the user’s device, it passes verification, else it fails verification.
     3. If the application uses RSA encryption methods when storing user credentials, it passes verification. Otherwise, it fails verification.
     4. If the application uses RSA encryption methods with all network traffic, it passes verification. Otherwise, it fails verification.
     5. If the application offers cloud storage for each profile, it passes verification. Otherwise, it fails verification.
     6. If the application includes the ability for “text to speech” using the Google “text to speech” web API for the pronunciation guide audio clip functional requirement, it passes verification. Otherwise, it fails verification.
     7. If the application notifies all linked account users when a name match has been made from the given user lists, it passes verification. Otherwise, it fails verification.
  2. Supporting Information

N/A

1. **Appendences**
   1. Assumptions and dependencies

N/A

* 1. Acronyms and abbreviations

|  |  |
| --- | --- |
| Acronyms and Abbreviations | Definition |
| API | Application Programming Interface |
| GUI | Graphical User Interface. A visual way of interacting with a computer using items such as windows, icons, and menus, used by most modern operating systems [1]. |
| RSA Encryption | Rivest Shamir Adleman Encryption. Public-key encryption technology |
| SQL | Structured Query Language, an international standard for database manipulation [1]. |
| MySQL | My Structured Query Language. An open source relational database management system. [5] |
| SQLite | Structured Query Lite. A relational database management system contained in a C library. Not a client server database engine. [6] |
| TCP/IP | Transmission Control Protocol/Internet Protocol, A set of rules that governs the connection of computer systems to the internet. |
| URL | Uniform Resource Locator |