**Functional Requirement**

1. App must provide tutorial for first time users.
   1. Tutorial must be clear and precise in teaching the users.
   2. Tutorial must not be skipped.
2. App must provide account creation process for first time users using verifiable information.
   1. Verifiable information must include email.
   2. Verifiable information must include phone number.
   3. App must provide error message when incorrect information is entered.
   4. Users must verify their email address before they are able to log in to the app.
3. App must allow users to log in to their account.
   1. App must provide error message when incorrect login details are entered.
   2. App must lock the account when incorrect login details are entered up to a maximum of 3 times.
   3. App must allow users to log out at any point of time after they log in.
4. App must request for permission to access the user’s location.
   1. If permission is granted, the app must show nearby kindergarten’s location with a radius of 5km.
      1. The app must display kindergarten in the 5km radius in ascending order based on ratings in the Kindergarten Result Box.
      2. Users must be able to tap on each location and view important information
         1. The app must display address of the kindergarten.
         2. The app must display phone number of the kindergarten.
         3. The app must display email of the kindergarten.
         4. The app must display an average rating of the kindergarten.
         5. The app must display latest reviews of the kindergarten.
      3. The app shall provide more detailed information of a kindergarten by tapping on “More Information” button.
         1. App must display opening hours of the kindergarten.
            1. The app must be able to display whether the kindergarten is open according to the current time of the user’s phone.
         2. App must display classes of the kindergarten.
         3. App must display reviews of the kindergarten.
            1. App must display review in inverse chronological order.
         4. App must display ratings of the kindergarten.
            1. App must display the average rating of the kindergarten.
         5. App must display if a kindergarten is spark certified.
         6. App must display pricing of the kindergarten.
            1. App must show pricing for Singapore Citizens
            2. App must show pricing for Permanent Residents.
   2. App must show all kindergartens in Singapore if permission is not granted.
      1. Kindergartens must be listed in ascending order according to ratings in the Kindergarten Result Box.
5. App must allow users to leave a review of a kindergarten.
   1. Each user shall only leave a review once per kindergarten.
   2. Users must not be able to submit multiple reviews for a kindergarten.
   3. Users must be able to amend their review.
6. App must allow users to leave ratings of a kindergarten.
   1. User must rate the kindergarten based on the categories.
      1. User must rate the kindergarten based on Cleanliness.
      2. User must rate the kindergarten based on Manpower.
      3. User must rate the kindergarten based on Curriculum.
      4. User must rate the kindergarten based on Amenities.
   2. Each user shall only leave ratings once per kindergarten.
   3. Users must not be able to submit multiple ratings for a kindergarten.
   4. Users must be able to amend their ratings.
   5. Average rating must be the weighted average based on Cleanliness, Manpower, Curriculum and Facility.
7. App must allow users to search for a location of a kindergarten using details of the kindergarten.
   1. App must allow users to search for a location of a kindergarten using postal code.
   2. App must allow users to search for a location of a kindergarten using name of kindergarten.
      1. App must allow users to search for a location of a kindergarten using part of the name of kindergarten.
   3. App must allow users to search for a location of a kindergarten using the address of kindergarten.
      1. App must allow users to search for a location of a kindergarten using part of the address of kindergarten.
   4. An informative message must be displayed if no results are found.
   5. Results must be displayed in the Kindergarten Result Box in ascending order according to ratings.
8. Users must be able to share information about a kindergarten on any social media platform through the “share via” menu.

**Non-Functional Requirement**

1. The app must be run on android phone running Android 6.0 and above.
2. The app must be developed entirely in Java.
3. Users must not spend more than 10 minutes to create an account.
4. The app must be able to fetch kindergarten information within 500ms when user tap on a pin on the map.
5. The app must be able to fetch kindergarten information within 500ms when user search for a kindergarten using the search bar.
6. On opening the app, app must be fully functional within 5 seconds.
7. If network connection is not available, app must display an informative pop-up box telling the user to try again later.