Sleeping Application Requirements
Stakeholders: Shanshan Yu(Administrator & Programmer), Kim Nguyen(Programmer & Public Relationship), Yu-Che Liu(Programmer & Web Server), Seyoung Nam(Mascot)
Version History

Name	Description	Date
0.1	The first Version	**3/9**
0.2	The second Version. Shanshan adjusted the due date and added more requirements features according to the app design.	**3/25**
0.3	Updated the status, and modified User Permenent data description, added Shanshan's new tasks on 3/26/2021.	**3/26**

1. Project Description
   The sleeping application will help users to build a healthy sleeping habit by playing a game.

2. Timeline
   3/12 Four Core Front-end Interfaces
   3/20 All Core Function Code & Interfaces
   3/27 Testing & Demo
   3/31 Check & Release

3. Modules
   Front-end User Interface
   Back-end code
   App Server (Optional)
   Data Analysis (Optional)
   Game Module (Partial Optional)

4. Tasks

Task Name	Description	Priority	Deadline	Member
Front-end Interfaces-1	The first front-end interface of the four core interfaces with a clock, sleeping time period and Alice.	1	3/12	Kim
Front-end Interfaces-2, 3	The second and third front-end interface of the four core interfaces, locking the screen during sleep	1	3/12	Spencer
Front-end Interfaces-4	The fourth interface of the for core interfaces, showing a gift received by the user.	1	3/12	Shanshan
Locking Screen Function	Locking Screen	1	3/20	Spencer

Gift Function	Giving Random Gift to User	2	3/20	Shanshan
Clock and Count Down Function	Set up Sleeping time and Connect it with Locking Function	1	3/24	Spencer
Clock's onClick Method	When the user click the clock, the function will invoke the lock screen activity	2	3/25	Kim
Merge MainPage and TimePicker		2	3/25	Kim & Spencer
Game Interfaces	Simple Store and Virtual Coins	4	3/25	Shanshan
User Permanent Data	1. Virtual Coins (int) get, set 2. Start_Time, End_Time (hours, minutes) get, set 3. Duration (hours) get set 4. Items Collection (ArrayList<Item>) get, set Average Sleeping Duration = Total durations / recorded days	1	3/26	Spencer
Unit Testing	Unit Test for the Merged Interface	2	3/26	Shanshan
Stacking Items	Stacking Items for Grid Views Update the feature in: - Gift Activity - Item Inventory Activity - Item Adapter - Linear item layout Add amount attributes to the Item Class	3	3/26	Shanshan
Data Interfaces	Data Bar Chart for every days sleeping, average sleeping time of the data	1	3/27	Kim
Data Analysis Feature(Optional)	Simple Chart: Option 1 Use Database and Fake Data for testing; Option 2 Store 7 Days Data in local	4	3/27	Kim
Integration Testing	After all core features have been developed	1	3/28	Spencer & Shanshan & Kim
Testing on Device	After all core features have been developed	1	3/29	
Fix Demo	2 mins demo	1	3/29	
Submission			3/30	Shanshan Yu

Tool
Android Studio
GitHub
Google
Stack Overflow (:D)