*Social Buddy: A blue and white cartoon face

Description automatically generatedIntegration beacons with Social-Buddy*

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# **Glossary**

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| **Term** | **Definition** |
| Button | Flic button[[1]](#footnote-2), a Bluetooth® button for Smart Home. |
| Buddy App | The software that the caregiver uses to assist in their job of taking care of the elderly. Made by the Social Buddy team. |
| Buddy Bot application | The software that the elderly use to assist in their life. It has a Social Buddy avatar that can respond to the user’s actions, using Face Recognition and Artificial Intelligent. |
| Social Buddy[[2]](#footnote-3) | Founded by Jack Jagt. They strive to develop a Buddy that can help seniors to stay connected and give them the skills that the will need. |
| Tablet | A device that hosts the Buddy Bot application and serves as the beacon for the tag to calculate distance. |
| Tag[[3]](#footnote-4) | A Bluetooth® location tracking device, Tile Pro version. It is like an Apple Air Tag or Samsung Galaxy SmartTag. |
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# **Introduction to project**

This is an ongoing project, organized by Jack Jagt, the product owner. Throughout the iterations, some processes have been made to the system. The assignment he has given this time is to implement the button and the Tile tag to the existing system. It consists of a Buddy App, a Buddy Bot (application), and a database.

# **Context of project**

*“The Social Buddy Foundation explores AI technology to improve self-reliance and prevent loneliness for elder and more frail members of society. Currently, many applications already exist to support older persons in their daily lives. However, interaction abilities are often limited due to poor voice feedback, or difficulties with touch sensitivity due to physical restrictions caused by aging.“* [1]*–* Social Buddy

There are currently many applications that are made to assist the caregiver in their jobs and the less fortunate in their lives. However, Jack Jagt finds the current selection doesn’t do enough. He wants his application to be able to help the elderly to stay connected to the society. That is why he founded Social Buddy and hired many developers and designers to realize this project.

Aside from those volunteers, he is also interested in what could the students at Rotterdam University of Applied Sciences do. Jack, because of that, has allocated parts of this project as mini projects to the students at this university. For our mini project (as a part of the school’s project 7/8), we were assigned to research and integrate a Flic button and a tag into the current system.

The system currently has 3 main parts: a Buddy app, a Buddy Bot app, and a database hosted on Firebase. The 2 hardware components must be linked to the Buddy Bot app on a tablet. The device is also used as a beacon for the tag the calculate the distance between those 2.

The idea behind this is to make the software more user-friendly for the elderly.

The button is used to notify the caretaker of when has the patient taken medicine. It can be where the drugs are at. When the medicine is taken, the elderly can just press the button to let the nurse know, instead of going to the tablet. The device may not be placed near the medication; therefore, it is for the elderly’s benefit to use a button.

The tag is always by an elderly’s side, may it be in a pants or shirt pocket. It is used to locate the elderly to prevent them from wandering off without anyone knowing. The tag is connected to the tablet via Bluetooth® to calculate the distance. When the calculated space between the tag and the beacon becomes too big (approximately 100 meters), the caretaker will be notified to pay more attention to the elderly.

These 2 new functionalities will help the user’s experience of the elderly and the caretaker becomes more streamlined.

# **Analysis**

Tba

# **Research**

Tba

# **Product**

Tba

# **Tests**

Tba

# **Conclusion**

Tba

# **References**

APA format ordered alphabetically.

[1] *About us – BUDDY*. (n.d.). <https://social-buddy.nl/about-us/>

[2]

[3]

[4]

[5]

# **Change log**

|  |  |  |
| --- | --- | --- |
| Version | Date (dd/mm/yyyy) | Changes |
| 0 | 12/02/2024 | Document made, outlines only |
| 1 | 13/04/2024 | Added introduction and context |
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1. Flic Button: <https://flic.io> [↑](#footnote-ref-2)
2. Social Buddy: <https://social-buddy.nl/> [↑](#footnote-ref-3)
3. Tile Pro Tag: <https://nl.tile.com/en/product/686641/pro-1-packwhite> [↑](#footnote-ref-4)