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Project Report
Group: SW610f19

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AALBORG UNIVERSITY
STUDENT REPORT

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Title:

Title

Abstract:

The abstract is right here

Theme:

Bache

Project Period:

Spring Semester 2019

Project Group:

SW610f19

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Copies: 1

Page Numbers: 23

Date of Completion:

May 28, 2018

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Chapter 1

Introduction

Autism spectrum disorder (ASD) is a condition that is characterized by a broad range of challenges within different areas such as social skills, speech and nonverbal communication, or by causing repetitive behavior. In 2014 there were 16.8 occurrences of the ASD diagnosis per 1,000 children, and approximately 1% of all Danes have an ASD diagnosis[1]. As ASD is a spectrum disorder, each person diagnosed with it has different strengths and challenges. This results in people with ASD learning, thinking and solving problems very differently, with ranges from highly skilled and functional to severely challenged. Some may require support in their daily lives while others on the spectrum can live entirely independently[2].

1.1 About GIRAF

GIRAF (Graphical Interface Resource for Autistic Folk) is an ongoing project developed by 6th semester software engineering students at Aalborg University. The project has been continuously developed on since 2011 with Ulrik Mathias Nyman as project coordinator, with the new students assuming responsibility and learning to cooperate in a bigger environment with an existing codebase. GIRAF is a program that serves the purpose of helping people with autism, with the primary user group being children. Its primary goal of the system is to provide visual representation of the daily or weekly schedule for the users. During the lifetime of the project, different types of games and communication tools to help with education have been implemented, but most of these functionalities do not work after the API rework of 2017. The current focus of the GIRAF project is to make the weekplanner stable and fit for use, before resuming work on the other parts of the project.

A special aspect of the project, in comparison to previous projects, is the direct interaction with real customers, who are essential for the project. The customers serve to define requirements of the program and facilitate the familiarization of students with industry processes.

Currently the institutions that are represented are:

- Mette and Emil, Egebakken (School)
- Kristine and Susanne, Birken (Kindergarten)
- Flemming, Center for Autism
- Niels, IT manager in the elderly and disability administration.

1.1.1 State of Giraf - February 2019

1.2 Technologies and Tools

1.3 Before Sprint 1

1.3.1 Interview with Emil from Egebakken

1.3.2 Producing Prototypes in Adobe Xd

Chapter 2

Sprint 1

2.1 Interview with Birken

2.1.1 Prototype feedback

Chapter 3

Sprint 2

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Sprint 3

Chapter 5

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Conclusion

Chapter 7

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Bibliography

- [1] Centers for Disease Control and Prevention. *Data & Statistics on Autism Spectrum Disorder*. Accessed: 2019-02-22. 2018. URL: <https://www.cdc.gov/ncbddd/autism/data.html>.
- [2] Autism Speaks Inc. *What is autism?* Accessed: 2018-02-22. URL: <https://www.autismspeaks.org/what-autism>.

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