Preface

This report handles the group’s work on a given project. This project is about developing a Bike tilting game planner system, which is distributed on a IT-System to support signing up, Lane creations, ongoing results registration and the communication of results

Indholdsfortegnelse

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# Introduction

This Assignment is about creating a WEB-solution for a Bike tilting game. This problem should be replacing the current “system” which is done manually by pen and paper. The program is expected to handle all kinds of Bike tilting tournaments, with different kind of age groups and maybe later even being able to handle normal tilting, with op to the max of lanes without effecting the core of the program

The system should be able to handle the signing up for the bike tilting, managing the Lane making in the different age groups, live updating results for the audience, access control is part of the system various volunteers that must log in to the system

Since this should be a web distributed program so the volunteers are able to handle their job with their own mobile devices. This implies that the servlet is needed where the volunteers/parents can connect and operate/observe the tilting.

# Problem Analysis

An app is what the Bike tilting needs, but as we cannot make apps yet, we decided to make a web-application so that you are still able to use your tablet/mobile device instead of a laptop.   
The web-application should be able to create a Bike tilting tournament with the different age groups,   
while having that made it is also important that each age group can have different kind of rules, on how many runs they have in each age group.

When the Tournament has been created, the signup period is … before. Another problem is that if there is a last participant at the last second that signs up must be put in the pool over the lanes and age groups, and be added to a lane and giving a shirt color and number. If there is not enough participants to fill out the lanes they will just remove some lanes or just fill the lanes with fewer participants.

The score needs to be handles by the volunteers, and when they all had the last run in the end the result should be shown, those with the most points should go on to the next stage but not till all participants had their run in the different age groups.

# Main Section

## System Development

### Scrum

As requested for this project, Our team is using SCRUM methodology. The project started by making the **Product Backlog,** The product backlog is when the customer writes down the requirements neede in prioritized order for the system leaving the estimation of hours of work for the team. Since we have a REAL customer in this project, we had a lsit of requirements and 2 MAJOR requirements he wanted to have implemented and then some other requirements that was also important but he could live with out for a start but could be added depending on the time we have.

We did split the 3 weeks we had into 3 iterations also called Sprints.

### Sprints

First 1st Sprint.

In the first sprint planning meeting, we started to think about what requirements we wanted to do in our 1st sprint, we selected: Sign up, Store Data, create Database,

Second 2nd Sprint.

In the second Spring we talked about what requirements we wanted to implement.   
2nd Sprint we selected: show Score, handle Score points