Black River Run Time Keeping

2018/16/01

Group 5

Summary

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Introduction

- Each year, Västerås Running Club organizes a long-distance race called Black River Run in Västerås.

- To be able to track how people are doing without attending the race, Västerås Running Club has a website where information about the race is displayed.

Introduction

- The representative of the client is Christoffer Holmstedt from the Organisation Västerås Running Club.

- As the current website is outdated, the goal of this project is to create a new web application.

The Product

What was developed ?

- PHP Website
  - Front-end design.
  - Interaction with the database.

- *Get punches* – a PHP script
  - Fetch data from an external API.
  - Parse and store data into the database.

- Database
  - Store data.
  - Bridge between *Get punches* and the website.

- Race Simulator

The Product

Get punches Features

- Fetching punches from a third party API.

- Saving valid data to the database.

- Calculating data.

- Error-handling.

The Product

Website Features

- Basic database interactions – *Dashboard*
  - INSERT, DELETE, UPDATE.
  - Verify data integrity.
  - Calculating data.

- Data visualization.
  - Display, Search, Sort.

- Account system.
  - Log in, Log out, Settings.

- Responsive UI.

- Dynamic Map

- File transfert.
  - Import and export data.

The Product

What desired features were not implemented ?

- Every required features were implemented.

- A complete testing environment, to quickly see if a part of the system passes or fails.

- One optional features that we desired to implement is a language selection.

Demonstration

Work Overview

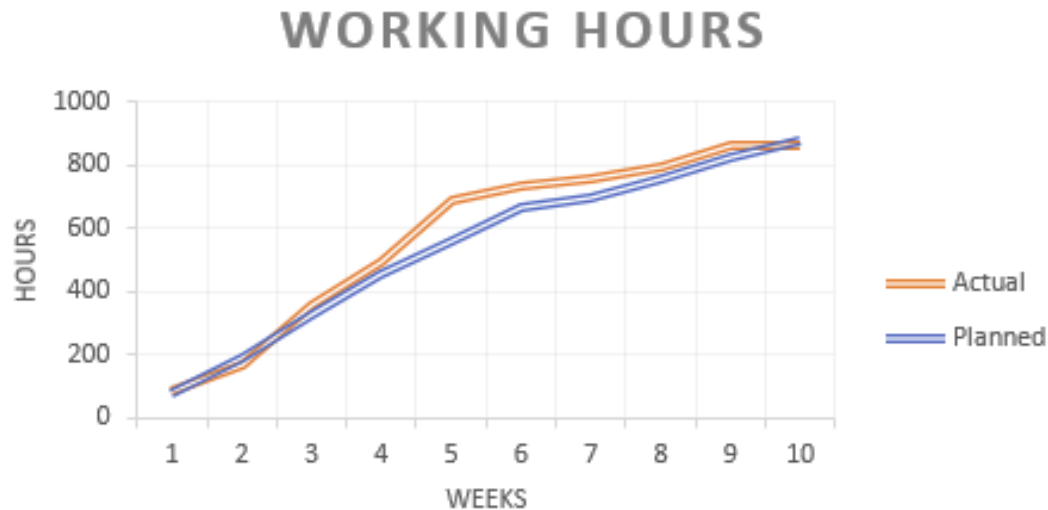## Organization and Routines

- 1 or 2 weekly meeting.
  - Assign new tasks.
  - What is done ? Is it valid ?
  - What is not done ? Why ? How to do it ?

- Weekly mail to the client.
  - Work advancement.
  - Questions on the project.

Work Overview

Organization and Routines

- Track of working hours each week.
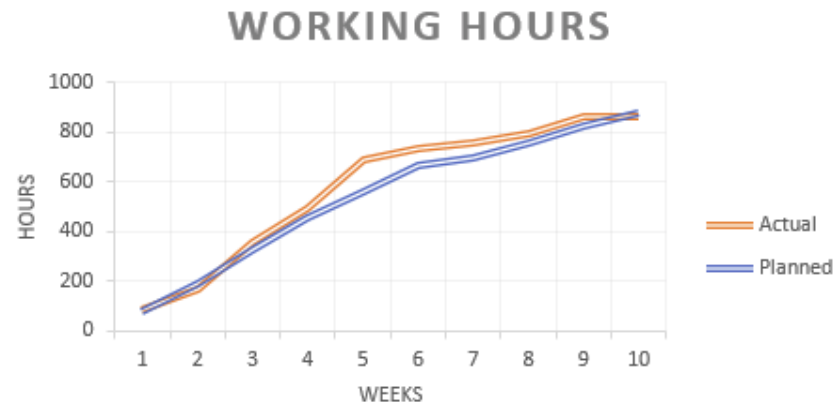 - 882 total working hours Planned.
  - At *week 9*, 864 working hours.

WORKING HOURS

Work Overview

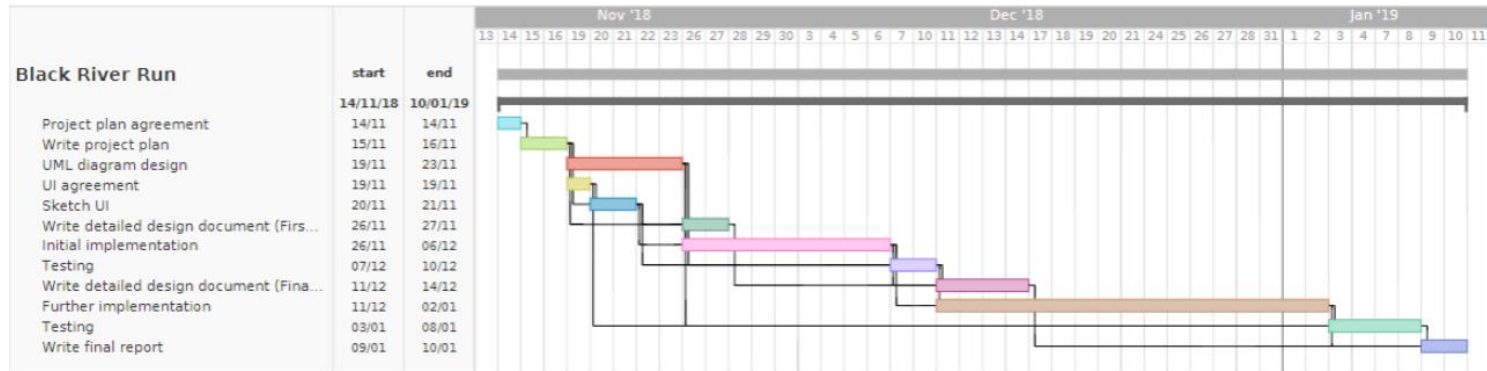## **Organization and Routines**

- More work as originally planned during the development phases.

- Some activities were finish earlier than planned and this saved time was spent on development phases.

WORKING HOURS

Work Overview

Changes

- The originally established Gantt chart was replaced by a *Working Plan* on Teams, similar to a Kanban board.

Black River Run	start	end
	14/11/18	10/01/19
Project plan agreement	14/11	14/11
Write project plan	15/11	16/11
UML diagram design	19/11	23/11
UI agreement	19/11	19/11
Sketch UI	20/11	21/11
Write detailed design document (Firs…	26/11	27/11
Initial implementation	26/11	06/12
Testing	07/12	10/12
Write detailed design document (Fina…	11/12	14/12
Further implementation	11/12	02/01
Testing	03/01	08/01
Write final report	09/01	10/01

- With this, activities goal and milestones were more focus and detailed.
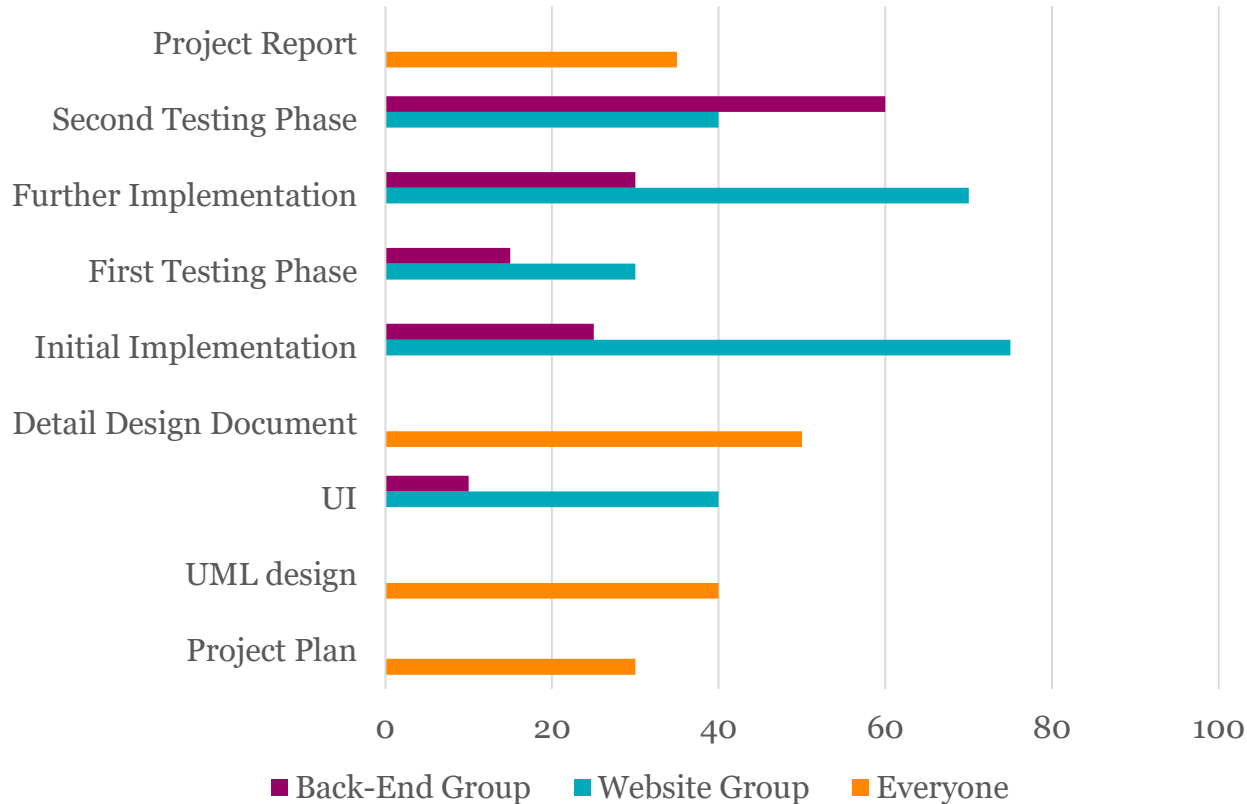
Work Overview

Changes

- The original working area of each group in the team were changed;

  - The Front-End Group, changed to the Website Group
    - Website development.
    - Back-End function related to the Website.

  - The Back-End Group
    - Back-End function related to the communication with External Systems.
    - Database management.
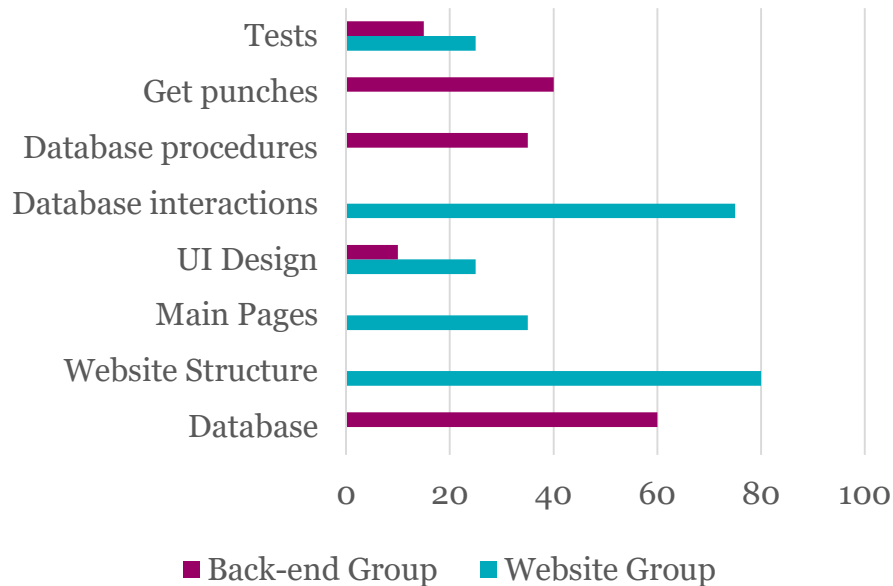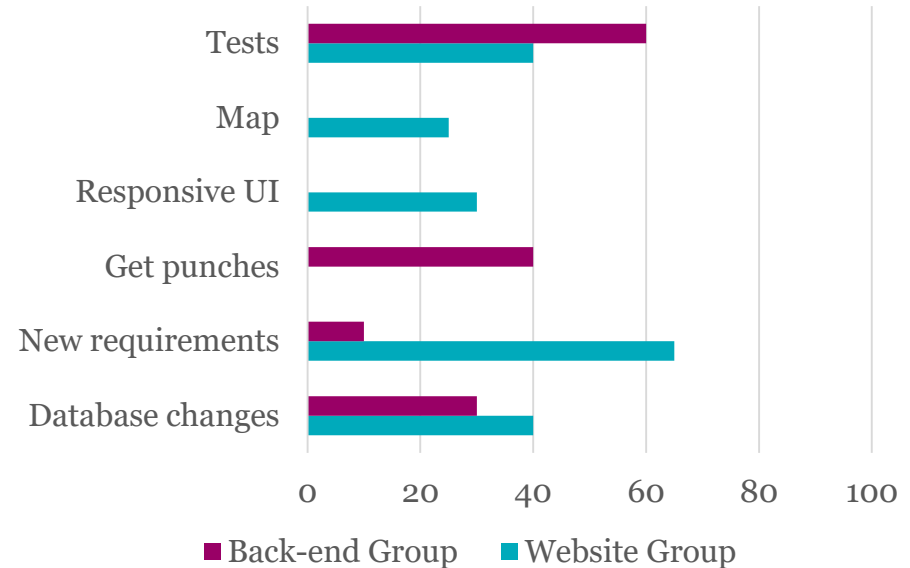
Work Overview

Effort Distribution

Conclusion

What did we learn ?

- PHP language.
- SQL
- HTML + CSS

- Group working.
  - Distant working.
  - Conduct weekly meetings.
  - Hold presentation.
  - Respect deadlines.

Conclusion

Experiences

- Working with people with different background.
  - Talk essentially in English.

- Working for a real client.

- Experiencing new tools such as *Teams* and *GitHub*.

- Problems,
  - Misunderstanding, due to different ways of working and the use of our non-mother language.

Conclusion

A Final Note

- As expected,
  - The project is finished in time.
  - The tool selection helps us with communication and work sharing.
  - This has been a great experience.

- Possible improvements,
  - Spend more time on the initial structure, to avoid mass changes later in the development.
  - Hold weekly personal working report, to get a better idea of work advancement and its distribution.

Questions

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