**Project Plan**

***Ordina Web App***

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| **Date : 30/10/2023** |
| **Version : 2.0** |
| **State : Sprint B** |
| **Author : Danko Kralski** |

#### Version history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Author(s)** | **Changes** | **State** |
| 1.0 | 04/10/2023 | Danko | Intitial setup | Initial state |
| 2.0 | 30/10/2023 | Danko | Research methodology + sprint dates | Second submision |
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# Project assignment

## Context

Ordina is an IT consulting and services company that offers design, implementation, and management services to a diverse clientele across various sectors. The company focuses on delivering sustainable digital solutions aligned with the business goals and needs of its clients. Their services encompass various domains, including software development, data analytics, cybersecurity, and more. Ordina's vision centers on the concept of "Digital Leadership," signifying their commitment to helping clients lead in the digital domain.

Currently, Ordina lacks a company platform to foster synergy among its employees. They are in search of a web application that can create an environment for scheduling meetings, enhancing communication, and displaying the calendar and workspace of individual employees.

## Goal of the project

To design and implement a comprehensive Desktop web application for Ordina that enhances intra-company synergy. This platform aims to streamline the scheduling of meetings, bolster communication channels, and provide transparent visibility into individual employee calendars and workspaces. By achieving this goal, the solution will foster better collaboration, improve operational efficiency, and reinforce Ordina's commitment to digital leadership in the IT consulting and services sector.

## Scope and preconditions

|  |  |
| --- | --- |
| **Inside scope:** | **Outside scope:** |
| 1. User can register |  |
| 1. User can manage their account |  |
| 1. User can see their calendar |  |
| 1. User can send invites |  |
| 1. User can manage their invites |  |
| 1. User can set office status |  |
| 1. User has a profile page |  |
| 1. User can manage their profile page |  |

***Preconditions***

There are no restrictions on the choice of technology. However, the following guidelines must be adhered to:

* Utilize an open-source framework.
* Employ an open-source database without licensing constraints.

## Strategy

For this project, we will adopt the SCRUM methodology to ensure agile and responsive development. This approach emphasizes collaboration, flexibility, and feedback-driven refinement. The software's development will be broken down into several iterations known as sprints. Each sprint will focus on delivering a specific set of features or improvements, allowing for continuous feedback and adjustments. By following the SCRUM framework, we aim to produce a software solution that aligns closely with the project's objectives and meets the needs of Ordina while maintaining adaptability to any changing requirements or challenges that may arise during the development process.

## Research questions and methodology

**Research Questions**

1. How do Ordina employees currently track and communicate their working status and location?

* Dot Framework Approach (Workshop Context): Organize meeting with the client to understand current practices and potential gaps.
* Dot Framework Approach (Field Context): Interview client about their daily routine to gain insight into their habits and preferences.

1. What features are essential for employees to effectively communicate and plan meet-ups with colleagues?

* Dot Framework Approach (Library Context): Research on best practices for in-house employee coordination platforms.
* Dot Framework Approach (Field Context): Questions targeting Ordina employees way of working to gather their preferences and suggestions.

1. What potential challenges might arise in integrating this web app with existing IT systems at Ordina?

* Dot Framework Approach (Lab Context): Develop and test mock integrations with a sandboxed version of Ordina's IT environment.

1. How should the user interface (UI) be designed to maximize user adoption and ease of use?

* Dot Framework Approach (Showroom Context): Design prototype wireframes and showcase them to the client for feedback.
* Dot Framework Approach (Lab Context): Conduct usability testing with employees(other teams) to identify areas of friction and improve the design.

## End products

* Source code – all the required code to run the website and the Unit tests.
* Project documentation including Git repository and README filles



# Project organisation

## Stakeholders and team members

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Abbreviation** | **Role and functions** | **Availability** |
| *Willems, Nick* | *N.W.* | *Project owner* |  |
| *Kralski, Danko* | *D.M.* | *SCRUM master and software developer* | *Working days from 9am to 4pm.* |
| *Nikolov, Bogdan* | *B.N.* | *Software developer* | *Working days from 9am to 4pm.* |
| *Stănică, Alexandru* | *A.S.* | *Software developer* | *Working days from 9am to 4pm.* |
| *Yanev, Boris B.N.* | *B.N.Y.* | *Software developer* | *Working days from 9am to 4pm.* |
| *Ivan, Alexandru* | *A.T.* | *Software developer* | *Working days from 9am to 4pm.* |
| *Boura Alambre Costa Carvalho, Bruno* | *B.M.* | *Software developer* | *Working days from 9am to 4pm.* |
| *Mossavat, Iman* | *S.I.* | *Team tutor* | *Friday from 9am to 4pm.* |

## Communication

Communication can be conducted digitally using email. Reach out to the following email addresses for contact:

* *Willems, Nick* - [nick.willems@ordina.nl](mailto:nick.willems@ordina.nl)
* *Mossavat, Iman -* [iman.mossavat@fontys.nl](mailto:iman.mossavat@fontys.nl)
* *Kralski, Danko -* [d.kralski@student.fontys.nl](mailto:d.kralski@student.fontys.nl)
* *Nikolov, Bogdan* - [b.nikolov@student.fontys.nl](mailto:b.nikolov@student.fontys.nl)
* *Stănică, Alexandru -* [*a.stanica@student.fontys.nl*](mailto:a.stanica@student.fontys.nl)
* *Yanev, Boris B.N.-* [b.yanev@student.fontys.nl](mailto:b.yanev@student.fontys.nl)
* *Ivan, Alexandru -* [a.ivan@student.fontys.nl](mailto:a.ivan@student.fontys.nl)
* *Boura Alambre Costa Carvalho, Bruno -* [*b.bouraalambrecostacarvalho@student.fontys.nl*](mailto:b.bouraalambrecostacarvalho@student.fontys.nl)

# Activities and time plan

## Phases of the project

Scheduling will take place on GitHub, specifically on the Front-End board ([View 1 · Front-End board (github.com)](https://github.com/orgs/Group-One-Fontys-Ordina/projects/5)) and the Back-End board ([View 1 · Back-End board (github.com)](https://github.com/orgs/Group-One-Fontys-Ordina/projects/3)). The boards will feature columns signifying different stages of the task workflow:

* To Do: Lists all pending tasks or work items.
* Sprint: Highlights tasks designated for completion within the current sprint.
* In Progress: Tasks currently under active development.
* HELP: Tasks that require additional support or insights.
* Testing: Tasks ready for evaluation or peer review.
* Done: Tasks that have been finalized and have met all required standards.

## Time plan and milestones

|  |  |  |  |
| --- | --- | --- | --- |
| **Phasing** | **Effort** | **Start date** | **Finish date** |
| 1. Sprint A | Focus on wireframes | 29/09/2023 | 24/10/2023 |
| 1. Sprint B | Start wireframes implementation | 25/10/2023 | 17/11/2023 |
| 1. Sprint C | Adjust implementation based on feedback | 18/11/2023 | 08/12/2023 |
| 1. Sprint D | Testing on implementation | 19/11/2023 | 12/01/2024 |
| 1. Sprint E | Make final changes and finish implementation | 13/01/2024 | 26/01/2024 |

# Testing strategy and configuration management

## Testing strategy

* **Unit tests:**

Scope: Individual functions, methods, or components.

Tools: For the backend, we'll use Jest alongside Supertest. For the frontend, Jest combined with React Testing Library will be the tools of choice.

* **Component Testing:**

Scope: React components, checking their rendering and interaction.

Tools: React Testing Library.

* **Integration testing:**

Scope: Testing interactions between integrated components, databases, and services.

Tools: Jest with Supertest for backend endpoints.

## Test environment and required resources

**Environment:** We'll adopt a DTAP (Development, Testing, Acceptance, Production) approach.

**Development:** Developers' local machines, with their own database instances.

**Testing:** A dedicated environment for automated tests.

**Acceptance**: Where stakeholders can validate features against business requirements.

**Production:** The live environment accessed by end-users.

**CI/CD:** We will utilize a CI/CD pipeline using GitHub Actions. This will help in automating the deployment process, running tests, and maintaining a consistent release rhythm.

## Configuration management

**Version Management:** We will use Git as our version control system.

**Tooling:** GitHub as a centralized repository.

**Branching Strategy:** Branching for different features.

**Main branch**: main

# Finances and risk

## Project budget

The project operates without a designated budget due to the utilization of open-source licenses and technologies, which inherently come without cost.

## Risk and mitigation

|  |  |  |
| --- | --- | --- |
| **Risk** | **Prevention activities** | **Mitigation activities** |
| 1. Not fulfilling the expected requirements | Transparency between development team and Project owner | Contact Project owner |
| 1. Too much work overflow | Careful planning for execution | Workflow transparency |
| 1. Sick team member |  | Contact Project owner and Team tutor |
| 1. Team member left |  | Contact Project owner and Team tutor |
| 1. Project owner halts the project | Transparency for workflow and team capabilities |  |