Project Plan

Genzai

Venlo

Svetoslav Stoyanov

Onboarding process

# Information Page

Fontys University of Applied Sciences   
 School of Technology and Logistics

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| Type of report: | **Project Plan** |
| Student name: | **Svetoslav Stoyanov** |
| Student number: | **3793222** |
| Study: | **Informatics – Software Engineering** |
| Internship Period: | **February 2023 – June 2023** |
| Company name: | **Genzai** |
| Address: | **Villafloralaan 1** |
| Postal code + City: | **5928 SZ, Venlo** |
| Country: | **the Netherlands** |
| Company supervisor: | **Victor Plesciuc** |
| Supervising Lecturer: | **Christian Salz** |

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# Global Planning

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| **Phases** | **Start date** | **End Date** |
| Initial project planning, getting to know the team and use cases separation | 06/02/2023 | 14/02/2023 |
| Sprint 1: Analysis and initial design. | 22/02/2023 | 08/03/2023 |
| Sprint 2: Analysis, update analysis and design artefacts, hotel research, initial implementation. | 08/03/2023 | 22/03/2023 |
| Sprint 3: Update design artefacts, Docker & AWS research. | 22/03/2023 | 05/04/2023 |
| Sprint 4: Database implementation changes/updates, and base endpoints. PostgreSQL on Docker implement. | 05/04/2023 | 19/04/2023 |
| Sprint 5: Back-end structure update, endpoints implementation, unit testing. Back-end on the cloud (AWS) implement. | 19/04/2023 | 03/05/2023 |
| Sprint 6: Back-end – database communication models and endpoints implementation, unit testing. | 03/05/2023 | 17/05/2023 |
| Sprint 7: Endpoints implementation and unit testing, update analysis and design artefacts. | 17/05/2023 | 31/05/2023 |
| Sprint 8: Fix known bugs, modify unit tests | 31/05/2023 | 14/06/2023 |
| Sprint 9: Wrap up (Optimization, polish the app, additional testing, finalize artefacts). | 14/06/2023 | 30/06/2023 (extended by 2 days) |

# Project Sprints

Workday = 8 hours

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| **TaskID** | **Task name** | **Duration** | **Start Date** | **End Date** |
| 1 | Internship Genzai with ViaLuxury as a client. | ~ 104  Workdays | 06/02/2023 | 30/06/2023 |
| 2 | Basic research to support design and project plan | 6 Workdays | 06/02/2023 | 14/02/2023 |
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| **Sprint 1: Analysis and initial design** | | | | |
| 3 | Initial use case diagram, use case scenarios and DB design, Project plan design basic research | 2 workdays | 22/02/2023 | 23/02/2023 |
| 4 | Meeting Bart & Alba, creating tasks, improving DB Schema, changing use cases and user stories | 1 workday | 24/02/2023 | 24/02/2023 |
| 5 | Writing Project plan, reviewing similar DB Schema to help improve our own | 1 workday | 27/02/2023 | 27/02/2023 |
| 6 | Finish writing project plan.  Update DB Schema according to feedback | 1 workday | 28/02/2023 | 28/02/2023 |
| 7 | Present DB Schema and improve according to the feedback | 2 workdays | 01/03/2023 | 02/03/2023 |
| 8 | Update DB Schema, request feedback | 2 workdays | 03/03/2023 | 06/03/2023 |
| 9 | Final DB Schema update | 2 workdays | 07/03/2023 | 08/03/2023 |
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| **Sprint 2: Analysis, update analysis and design artefacts, hotel research, initial implementation** | | | | |
| 10 | Request approval for DB Schema.  Initial PostgreSQL DB implementation.  Research “what packages are sold the most by 4- and 5-star hotels” topic. | 1 workday | 08/03/2023 | 08/03/2023 |
| 11 | Generate initial FastAPI structure. Create register and login endpoints | 1 workday | 09/03/2023 | 09/03/2023 |
| 12 | Improve back-end structure, create endpoints, test initial database connection, update analysis and design artefacts | 6 workdays | 10/03/2023 | 17/03/2023 |
| 13 | Write initial unit tests, finalize back-end structure | 3 workdays | 20/03/2023 | 22/03/2023 |

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| **Sprint 3: Update design artefacts, Docker & AWS research** | | | | |
| 14 | Update analysis and design artefacts. Research PostgreSQL container running on Docker | 6 workdays | 22/03/2023 | 29/03/2023 |
| 15 | Research “How to run the back end on Amazon Cloud” and initial implementation | 5 workdays | 30/03/2023 | 05/04/2023 |
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| **Sprint 4: Database implementation changes/updates, and base endpoints. PostgreSQL on Docker implement.** | | | | |
| 16 | Update/change the database. | 2 workdays | 06/04/2023 | 07/04/2023 |
| 17 | Update back-end structure, add/modify endpoints | 4 workdays | 10/04/2023 | 14/04/2023 |
| 18 | Run database on docker container. | 3 workdays | 17/04/2023 | 19/04/2023 |
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| **Sprint 5: Back-end structure update, endpoints implementation, unit testing. Back-end on the cloud (AWS) implement.** | | | | |
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| 19 | Write/Improve unit tests on existing implementation | 5 workdays | 20/04/2023 | 26/04/2023 |
| 20 | Deploy back-end on the cloud (AWS) | 5 workdays | 27/04/2023 | 03/05/2023 |
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| **Sprint 6: Back-end – database communication models and endpoints implementation, unit testing.** | | | | |
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| 21 | Create Data transfer objects | 2 workdays | 04/05/2023 | 05/05/2023 |
| 22 | Test DTO for DB communication operations. | 5 workdays | 08/05/2023 | 12/05/2023 |
| 23 | Update analysis and design artefacts. Implement new endpoints/improve old ones. | 2 workdays | 15/05/2023 | 17/05/2023 |
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| **Sprint 7: Endpoints implementation and unit testing, update analysis and design artefacts.** | | | | |
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| 24 | Update DTOs, update analysis and design artefacts | 6 workdays | 18/05/2023 | 25/05/2023 |
| 25 | Update unit tests for DTO | 4 workdays | 26/05/2023 | 31/05/2023 |
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| **Sprint 8: Fix known bugs, modify unit tests** | | | | | | | | | |
| 26 | | Fix known bugs | | 6 workdays | | 01/06/2023 | | 08/06/2023 | |
| 27 | | Modify unit tests, improve documentation | | 4 workdays | | 09/06/2023 | | 14/06/2023 | |
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| **Sprint 9: Wrap up (Optimization, polish the app, additional testing, finalize artefacts).** | | | | | | | | | |
| 28 | | Optimize DTO – DB communication. | | 5 workdays | | 15/06/2023 | | 21/06/2023 | |
| 29 | | Add missing comments on code, improve old comments. | | 3 workdays | | 22/06/2023 | | 26/06/2023 | |
| 30 | | Add tests if missing on any code block.  Finalize analysis and design artefacts to be up to date. | | 4 workdays | | 27/06/2023 | | 30/06/2023 | |

# Communication

Currently, the project team holds weekly progress meetings that last for an hour each. These meetings take place in person at the company's Venlo location. However, in case of necessity, the team holds the meetings online through Zoom. If the need arises for additional meetings, team members arrange them according to the specific case requirements. Besides, team members communicate during work hours at the working location as needed.

For written online communication, the team members use email or **Slack** for fast communication. To manage project tasks and sprints, the team uses **Jira** as their Scrum tool.

# Versioning

Our version control system is **GitLab**, where all up-to-date artefacts are stored.