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| Goals | |
| | Implement a successful project by adhering to the project plan and roadmap |
| | Conduct team meetings |
| | Learn and execute the tasks and responsibilities of Agile Methods |
| | Get an insight into the project roles |
| | Gather full business requirements of the training app from industry owner |
| Meeting norms | |
| | Mandatory meetings from Wednesday 12.30, everybody should participate in meetings regularly |
| | One additional weekly meeting like Sunday, everybody should participate in general (at least two people) |
| | Inform other team members if someone will be late and take accountability |
| Working norms | |
| | If one cannot fulfill the task due to the time constraints or for any other reason, then informing the team well ahead would be expected |
| | Difficult tasks can be solved as a group, but split the tasks as far as possible to work independently |
| | Raise project related queries to the product owner and seek regular confirmations and approvals |
| | Finish all the assigned tasks meeting the project deadlines |
| | Pull principle : Everyone can take the task that they like to do |
| Coordination norms | |
| | Team Coordination over WhatsApp and MS Teams |
| | Project Owner acts as the Leader of the team meetings and ensures the project runs on track. |
| | Allocate assignments: Nobody has to do all the tasks, which he or she does not want to do. However, keep track on the tasks which nobody wants to do it, allocate the task to the right person. |
| | Be responsible and respectful to each other |
| Communication norms | |
| | Communicate over MS Teams and WhatsApp (and Zoom in case of connection issues) |
| | Upload the project documentation in the designated project Tool |
| | A quick response or acknowledgement is expected. However, inform team members well ahead if someone is not available, quick answers to a topic should be possible for everybody |
| | Inform team members if possible, the day before if one cannot participate in the meeting |
| | Communicate beforehand your personal issues (e.g., Examination period, excuses afterwards are not accepted) |
| Consideration norms | |
| | Discuss relevant topics during the meetings |
| | Have a vote on agreement / disagreement in case of differences in ideas and opinions |
| Cont. improvement norms | |
| | Track team's progress by conducting status update meetings regularly (protocol) |
| | Upload / share lecture slides, documents, and other information in MS Teams |
| Rewards | |
| | Celebrate special efforts or MVP of every sprint in the HALL OF FAME |
| Sanctions | |
| | We will make a list of the backlogs, and at the end of the project bring chocolates, make their place in the HALL OF SHAME. |
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| # | Meeting Day | Comment | Coach | Product Owner | Software Developer | Scrum Master | Release Manager |
|----|-------------|---------------|-------|---------------|--------------------|--------------|-----------------|
| 1 | 2021-04-14 | | Yes | | Everyone else | N/A | N/A |
| 2 | 2021-04-21 | | Yes | Tuhin | Everyone else | Charinee | Dominik |
| 3 | 2021-04-28 | | Yes | Finley | Everyone else | Sandra | Matti |
| 4 | 2021-05-05 | | | Tuhin | Everyone else | Marlon | Vaidehi |
| 5 | 2021-05-12 | | Yes | Finley | Everyone else | Tuhin | Sandra |
| 6 | 2021-05-19 | | | Tuhin | Everyone else | Matti | Charinee |
| 7 | 2021-05-26 | Mid-term due | Yes | Finley | Everyone else | Dominik | Marlon |
| 8 | 2021-06-02 | | | Tuhin | Everyone else | Charinee | Dominik |
| 9 | 2021-06-09 | | | Finley | Everyone else | Vaidehi | Matti |
| 10 | 2021-06-16 | | Yes | Tuhin | Everyone else | Finley | Vaidehi |
| 11 | 2021-06-23 | | | Finley | Everyone else | Sandra | Charinee |
| 12 | 2021-06-30 | | | Tuhin | Everyone else | Matti | Sandra |
| 13 | 2021-07-07 | | Yes | Finley | Everyone else | Dominik | Marlon |
| 14 | 2021-07-14 | Demo day! | | | | | |
| 15 | 2021-07-21 | Retrospective | | | | | |
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| Product Vision | Project Mission |
|--|--|
| <p>The rapidly growing mass of data requires further refinements and new technologies in order to find the right data in this deluge of information. The creation and management of metadata is decisive for representing the content of stored objects and files. This metadata is held in a database for instant retrieval. Lists can be constructed from these databases to find files and objects in general, but they do not yet afford access to the real data. For this reason, a synthetic file system is considerably useful. A synthetic file system enables to access data, chosen by queries in the database of metadata. Retrieval of project-related data is done through a distributed database and a virtual file system that permits a single namespace for all relevant data designated by their metadata.</p> | <p>Due to the current Corona pandemic, as much data as possible is to be analyzed and evaluated with the help of artificial intelligence (AI). This requires a central intelligence to collect and interpret all accessible data distributed over several facilities. The key issue is that the data is organized and saved in different systems according to different storage types, structures, formats and criteria. The task, or rather mission is now to first make the data obtainable or readable via a uniform mechanism within the project time-frame. This would have the benefit of not having to adapt each application to the different memory types. The synthetic file system is a so-called adapter for each type of memory, so that a unified namespace can be formed from it.</p> |

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| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
|---|---------------------------------|--|---|---------------------|--------------------|---------------------|--------------------|-----------|
| 1 | Project Organisational Features | | | | 29 | | 29 | 92 |
| | | Provide the organisational features | | | | | | |
| | | | Information on prior experience | 2 | | 2 | | |
| | | | Role Assignment | 1 | | 1 | | |
| | | | T-Shirt Logo | 8 | | 8 | | |
| | | | Team Contract | 13 | | 13 | | |
| | | | Additional Team Meetings | 2 | | 2 | | |
| | | | Clone Client Repository | 3 | | 2 | | |
| 2 | Setting up the Docker | | | | 28 | | 28 | 63 |
| | | Creating the DOCKER | | | | | | |
| | | | Set up Docker Skeleton (Linux fuse) resembles | 3 | | 3 | | |
| | | | Configure the docker to allow X forwarding | 5 | | 5 | | |
| | | | Setup a Feature branch in GIT | 2 | | 2 | | |
| | | Update DOCKER | | | | | | |
| | | | Update DOCKER file and DOCKER compose running | 5 | | 5 | | |
| | | | Integration tests for py-test for docker and docker-compose | 13 | | 13 | | |
| 3 | SFS Functionalities | | | | 54 | | 39 | 55 |
| | | Creating the basic Framework of FUSE | | | | | | |
| | | | Implement basic directory functionalities in the FUSE | 8 | | 5 | | |
| | | | Create a FUSE metaHub bridge | 5 | | 3 | | |
| | | | Creating test for FUSE (read access) | 5 | | 3 | | |
| | | | Improve Error handling | 5 | | 5 | | |
| | | Filter Implementation | | | | | | |
| | | | Implementation of filtering dataset prototype | 8 | | 5 | | |
| | | | Implement functionalities to open files from/within the FUSE | 5 | | 3 | | |
| | | Script | | | | | | |
| | | | Create an updated start script for the SFS | 3 | | 5 | | |
| | | | Make the building of the file tree modular | 5 | | 5 | | |
| | | | Implement WRITE support for SFS | 5 | | - | | |
| | | | Parser from Config toml to Graph-QL/Modular | 5 | | 5 | | |
| 4 | MetaData Hub | | | | 28 | | 18 | 49 |
| | | Getting the new FUSE Code repository | | | | | | |
| | | | Migrate the code base to the new metadata hub | 5 | | 3 | | |
| | | | Metadata Hub | 5 | | 3 | | |
| | | | Creating a modular interface for supporting multiple backends | 8 | | 5 | | |
| | | | Exception handling and Test for MDH query | 3 | | 5 | | |
| | | | Create an xattr command/script | 5 | | - | | |
| | | | Create a caching mechanism for writing files in the mdh backend | 2 | | 2 | | |
| 5 | Automated Testing | | | | 8 | | 8 | 41 |
| | | Testing should be automated to reduce redundancy | | | | | | |
| | | | Create Unit Tests that cover the most important functionality. | 5 | | 5 | | |
| | | | Project linter and CI setup | 3 | | 3 | | |
| 6 | Debian System | | | | | | | |
| | | Setting up the debian system | | | 16 | | 8 | |
| | | | Configure and familiarise with the first Debian System | 8 | | 8 | | |
| | | | Set-up automatic testing on the Debian system | 8 | | - | | |
| 7 | README file | | | | 8 | | 4 | |
| | | Create README file | | | | | | |








| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn- Down |
|---|-------|------|----------------------------------|------------------------|-----------------------|------------------------|-----------------------|---------------|
| | | | Restructure the README text file | 3 | | 2 | | |
| | | | Update the README file | 5 | | 2 | | |
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| # | Feature Definition of Done | Sprint Release Definition of Done | Project Release Definition of Done |
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| 1 | Feature Code review from peers has been completed and passed | Code review from peers has been completed and passed | Code review from peers has been completed and passed |
| | <i>a. Code is fully implemented and commented</i> | <i>a. Code is fully implemented and commented</i> | <i>a. Code is fully implemented and commented</i> |
| | <i>b. Adheres to coding guidelines</i> | <i>b. Adheres to coding guidelines</i> | <i>b. Adheres to coding guidelines</i> |
| | <i>c. Commits are not squashed</i> | <i>c. Commits are not squashed</i> | <i>c. Commits are not squashed</i> |
| | <i>d. Code is checked into the repository</i> | <i>d. Code is checked into the repository</i> | <i>d. Code is checked into the repository</i> |
| 2 | Unit tests for feature have been written and are passing | Unit tests/ Integration test have been written and are passing | Unit tests/ Integration test have been written and are passing |
| 3 | Cleanliness of the Code (Readability) | Cleanliness of the Code (Readability) | Cleanliness of the Code (Readability) |
| 4 | No critical bugs are open | No critical bugs are open | No critical bugs are open |
| 5 | Feature branch has been tagged and merged | Database consistency checks in test environment succeeded | Software documentation passes external review |
| 6 | Feature Code has been included into the release (candidate) | Code has been included into the release (candidate) | User manual passes external review |
| 7 | Code Coverage: | Code Coverage: | The code and readme on Github is well documented and easily readable |
| | 40 % - for Features | 50 % - for Sprint Release | Code Coverage: |
| | | | 60 % - for Product Release |
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| Last Name | First Name | Value | | | | | |
|---|---|---|---|---|---|---|--|
| Mallick | Tuhin | | | 5.00 | OK | | |
| Abraham | Finley | | | | | | |
| Weghorn | Marlon | 5 | | | | | |
| Bafna | Vaidehi | | | | | | |
| Schoepf | Dominik | 5 | | 0 | No effort | | |
| Schulze | Matti | 5 | | 1 | Minimal effort | | |
| Srikhaolan | Charinee | | | 2 | Small effort | | |
| Arbo | Sandra | 5 | | 3 | Medium effort | | |
| | | | | 5 | Large effort | | |
| | | | | 8 | Very large effort | | |
| | | | | 13 | Too large effort | | |
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