AMOS 2023ws02 - Planning Document Project Data

| Project Name | |
|----------------------------|--|
| | |
| Online team meeting | https://fau.zoom-x.de/j/67529253146 |
| | |
| Production system (if any) | |
| Test system (if any) | |
| | |
| GitHub repository | https://github.com/amosproj/amos2023ws02-pitest-ide-plugin |
| GitHub feature board | https://github.com/orgs/amosproj/projects/26/views/2 |
| GitHub impediments backlog | https://github.com/orgs/amosproj/projects/36 |
| | |
| Team T-shirt (white) | https://www.shirtinator.de/loadBasket/w2sVI72Xs18 |
| Team T-shirt (black) | https://www.shirtinator.de/loadBasket/w2sVI72Xs18 |
| | |
| Additional materials | |
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AMOS 2023ws02 - Planning Document Project Team

| Last Name | First Name | GitHub User Name | Email Address |
|-----------|------------|------------------|----------------------------|
| Erben | Emanuel | emuguy1 | emanuel.erben@fau.de |
| Nützel | Felix | Felix-012 | felix.nuetzel@fau.de |
| Heimbs | Lennart | Iheimbs | lennart.heimbs@fau.de |
| Böhm | Luca | QW3RAT | luca.boehm@fau.de |
| Malliaros | Nikolaos | nikomall34 | niko.malliaros@gmail.com |
| Herzig | Tim Niklas | timherzig | tim.herzig@hotmail.com |
| Fogarty | Liam | Ifogarty98 | lfogarty9995@gmail.com |
| Oberson | Brianne | brianneoberson | brianne.oberson@gmail.com |
| Dargel | Olivia | oliviadargel | olivia.dargel@tu-berlin.de |
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AMOS 2023ws02 - Planning Document Role Assignments

| # | Meeting Day Product Owner | Software Developer | Release Manager | Scrum Master | Comment |
|----|--|--------------------|--------------------|---------------|---------------|
| 1 | 2023-10-18 Nützel Felix, Emanuel Erben | Everyone else | N/A | Olivia Dargel | |
| 2 | 2023-10-25 Nützel Felix, Emanuel Erben | Everyone else | Heimbs Lennart | Olivia Dargel | |
| - | 2023-11-01 - | - | - | - | |
| 3 | 2023-11-08 Nützel Felix, Emanuel Erben | Everyone else | Malliaros Nikolaos | Olivia Dargel | |
| 4 | 2023-11-15 Nützel Felix, Emanuel Erben | Everyone else | Böhm Luca | Olivia Dargel | |
| 5 | 2023-11-22 Nützel Felix, Emanuel Erben | Everyone else | Herzig Tim Niklas | Olivia Dargel | |
| 6 | 2023-11-29 Nützel Felix, Emanuel Erben | Everyone else | Fogarty Liam | Olivia Dargel | |
| 7 | 2023-12-06 Nützel Felix, Emanuel Erben | Everyone else | Oberson Brianne | Olivia Dargel | Mid-term due |
| 8 | 2023-12-13 Nützel Felix, Emanuel Erben | Everyone else | Heimbs Lennart | Olivia Dargel | |
| 9 | 2023-12-20 Nützel Felix, Emanuel Erben | Everyone else | Böhm Luca | Olivia Dargel | |
| 10 | 2024-01-10 Nützel Felix, Emanuel Erben | Everyone else | Malliaros Nikolaos | Olivia Dargel | |
| 11 | 2024-01-17 Nützel Felix, Emanuel Erben | Everyone else | Herzig Tim Niklas | Olivia Dargel | |
| 12 | 2024-01-24 Nützel Felix, Emanuel Erben | Everyone else | Fogarty Liam | Olivia Dargel | |
| 13 | 2024-01-31 Nützel Felix, Emanuel Erben | Everyone else | Oberson Brianne | Olivia Dargel | |
| 14 | 2024-02-07 Nützel Felix, Emanuel Erben | Everyone else | Heimbs Lennart | Olivia Dargel | Demo day! |
| 15 | 2024-02-14 Nützel Felix, Emanuel Erben | Everyone else | Böhm Luca | Olivia Dargel | Retrospective |
| | | | | | |
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AMOS 2023ws02 - Planning Document

Team Contract

| Goals | Working Plugin that can be integrated in IntelliJ. |
|-------------------------|--|
| | We create a product that satisfies our industry partners |
| Mosting norms | We want to be propertied if not tell the group. // populse alternative: We start on time. If late, notify the others |
| Meeting norms | We want to be punctual, if not, tell the group // maybe alternative: We start on time. If late, notify the others. |
| | Absence should be communicated before the meeting |
| | Focus and concentrate |
| Working norms | We finish our assigned tickets on time |
| _ | We upload our changes at 8 PM the day before our meetings |
| Coordination norms | We stick to our assigned roles |
| | Assign each task to a specific person. |
| Communication norms | No voice messages |
| | We communicate problems to each other |
| | Everyone checks the communication channel (Discord) regularly at least once a day. |
| | If someone is not reachable within 1 & 1/2 week, Prof. Riehle is informed and asked for further instructions |
| Consideration norms | We discuss disagreement openly |
| | We vote for final resolution |
| Cont. improvement norms | Teams progress will be tracked through weekly updates |
| Rewards | Everyone celebrates via a reaction in the zoom after each sprint |
| Sanctions | You have to complete unwanted tickets if you violate our norms |
| | |
| Signatures | |
| Scrum Master | Olivia Dargel |
| Product owner | Felix Nützel |
| Product owner | Emanuel Erben |
| Software developer | Lennart Heimbs |
| Software developer | Brianne Oberson |
| Software developer | Luca Böhm |
| Software developer | Liam Fogarty |
| Software developer | Nikolaos Malliaros |
| Software developer | Tim Niklas Herzig |

AMOS 2023ws02 - Planning Document Product Goal

Product Vision

The reason of existence of the envisioned product (beyond this project):

Software quality hinges on robust testing practices. While code coverage remains a prevalent metric, evaluating the true effectiveness of tests in ensuring expected behavior often gets overlooked. This is where Mutation Testing steps in—a method that generates code variations to evaluate the ability of tests to detect changes.

PiTest, a leading tool in Mutation Testing, falls short due to its limited integration capabilities. It lacks the functionality to display test run results and configure test scope dynamically, creating a gap in assessing test effectiveness within the environment best known to the developer.

Our product vision is to introduce an IntelliJ IDE plugin that not only presents PiTest results but also empowers users to seamlessly fine-tune test scopes, even down to specific classes. By integrating these features, we aim to bridge the existing gap, providing enhanced visibility and control within the familiar IntelliJ environment, thereby ensuring higher-quality test outcomes.

Project Mission

The mission of this particular project (in the context of the product vision):

Our mission is to enhance software mutation testing within the IntelliJ IDE by implementing a specifically designed plugin that integrates with PiTest. The approach involves several key steps:

Integration Development: We will develop an plugin that integrates with IntelliJ IDE, ensuring that PiTest's functionalities are easily accessible within the developer's primary workspace.

Dynamic Test Configuration: A core feature of our plugin will be to enable dynamic configuration of test scopes. This will allow developers to selectively fine-tune their testing efforts, focusing on specific classes or modules.

Result Visualization: The plugin will provide visualizations of Mutation Testing results. This will make it more comfortable for developers to interpret PiTest outputs.

User-Centric Design: The interface and functionality of the plugin will be designed with a strong focus on user experience, ensuring that it is both powerful and easy to use.

By following these steps, we aim to not only enhance PiTest's functionality within IntelliJ IDE but also empower developers with more efficient, precise, and user-friendly software testing tools, ultimately leading to higher quality software development.

AMOS 2023ws02 - Planning Document Product Glossary

| Term | Definition |
|-------------------|---|
| Pitest/PIT | The Tool to run the Mutation Tests |
| Gradle | The build tool for Java/Android Applications which is used to run Pitest |
| Context Menu | The window that appears if you right click within the IDE |
| Color Bars | Bars that are shown at the beginnig of a line of code to indicate the result of a PiTest Run |
| Tool Window | The tool window contains 4 tabs. One for the Latest pitest result, the tree tab, a line chart and a bar chart. |
| Line Coverage | Defines how many lines of the source code are executed by the tests |
| Mutation Coverage | This is a measure of how many mutations in the code are detected and killed by the tests |
| Test Strength | This is an overall measure of how effective the test suite is in killing mutations |
| Coverage Report | Report generated by Pitest that includes Line Coverage, Mutation Coverage and Test Strength |
| Tree Tab | The tree tab contains the information from the coverage report sorted by packages for each class that is contained in the package |
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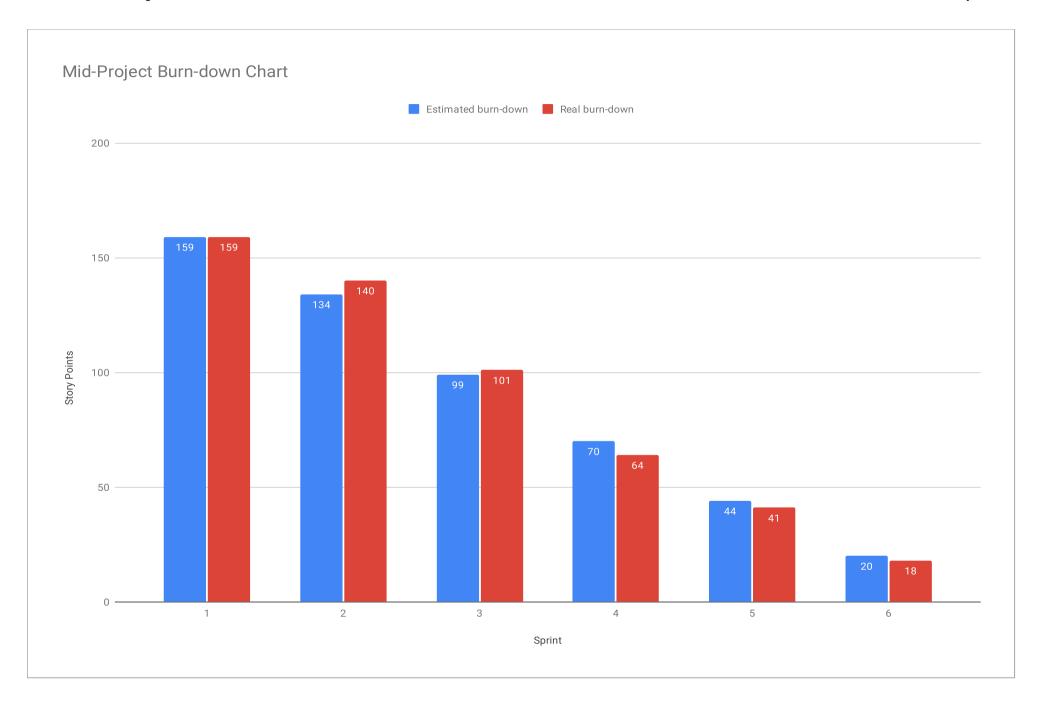
AMOS 2023ws02 - Planning Document Sprint Goals

| Sprint # | Sprint goal |
|----------|---|
| 1 | None |
| 2 | None |
| 3 | None |
| 4 | Create first meaningful Features |
| 5 | Working with Test-Report Results |
| 6 | Create connection between our Plugin and Pitest Gradle Plugin |
| 7 | Create first working prototype with all core features |
| 8 | Start Publishing Process |
| 9 | Build more Visualizations |
| 10 | Add more customization |
| 11 | Refine Run Configurations |
| 12 | Techincal Refinments and Preperation Demo Day |
| 13 | Final Cleanup |
| 14 | Project Summary and Retrospective |
| | |
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| | |

| Sprint | Goal | Feature Name | Est. Size | Est. Remaining | Real Size | Real Remaining |
|---------|--|--|-----------|-------------------|----------------------------|-------------------|
| Releas | e | | | | | |
| | | | | | | |
| Total | | | 159 | 159 | | |
| Sprints | 5 | | | | | |
| 1 | Research Basics | | 25 | 159 | 19 | 159 |
| 2 | Software Architecture | | 35 | 134 | 39 | 140 |
| 3 | Create Codebasics | | 29 | 99 | 37 | 101 |
| 4 | Create first meaningfull Features | | 26 | 70 | 23 | 64 |
| 5 | Working with Test-Report Results | | 24 | 44 | 23 | 41 |
| 6 | Create connection between our Plugin and Pitest Gradle Plugin | | 20 | 20 | 28 | 18 |
| Featur | es | | | | | |
| 1 | Research Basics | | | | | |
| - | | Research Mutation Testing | 5 | | 5 | |
| | | Research Plugin IntelliJ IDE | 5 | | 5 | |
| | | Initialize Readme.md and Wiki | 5 | | 2 | |
| | | Create team logo | 5 | | 5 | |
| | | Familiarize with Pitest | 5 | | 2 | |
| 2 | Software Architecture | Tarrinarizo With Hook | | | _ | |
| | Continue of the onte of the original of the or | Create a Runtime Components Diagram | 8 | | 8 | |
| | | Create a Code Components Diagram | 8 | | 8 | |
| | | Create a Technology Stack Summary | 5 | | | |
| | | Create a Textual Explanation of Diagrams and Choices | 3 | | | |
| | | Initialize Software Bill of Material | 3 | | | |
| | | Research best way to read PIT data | 3 | | | |
| | | Create Code Skeleton | 3 | | | |
| | | Create a Coding & Git Guideline | 2 | | | |
| 3 | Create Codebasics | Croate a county a cit catacimic | | | J | |
| • | Ordato Oddobaoroc | Create a Build Guide for our Project | 3 | | 1 | |
| | | Obtain and Transform the Test Report | 5 | | 3 3 2 5 5 5 | |
| | | TestConfigurator that can interact with PiTest | 8 | | 13 | |
| | | Create a gradle connector that can interact with the project | 5 | | 5 | |
| | | Research possible configurations and parameters that can be forwarded to Pitest | 3 | | 2 | |
| | | Add Visualization for the User | 5 | | 8 | |
| 4 | Create first meaningfull Features | | | | | |
| | | Attend IntelliJ Webinar on how to get the Plugin into Marketplace on November 16th | 2 | | 2 | |
| | | Implement Context Menu for Class-Specific Run Execution | 8 | | 5 | |
| | | Color Bars on one side of the code indicating PiTest status | 8 | | 8 | |
| | | Research forward way of running Pitest | 5 | | 5 | |
| | | Develop and Document Basic Testing Framework for Plugins with Example | 3 | | 3 | |
| 5 | Working with Test-Report Results | | | | | |
| - | The state of the s | Research forward way of running Pitest | 5 | | 8 | |

| | | | | Est. | | Real |
|--------|---|--|-----------|-----------|-----------|-----------|
| Sprint | Goal | Feature Name | Est. Size | Remaining | Real Size | Remaining |
| | | Create Build Process Video | 3 | | 3 | |
| | | Get the scope information to MutationMateRunConfiguration.kt | 3 | | 3 | |
| | | Implement Storing Old Pitest Runs | 8 | | 3 | |
| | | Improve GitHub CI Workflow | 2 | | 1 | |
| | | Load Pitest XML Files | 3 | | 5 | |
| | | | | | | |
| 6 | Create connection between our Plugin and Pitest Gradle Plugin | | | | | |
| | | Initialize user, (technical) design and build/deploy documentation | 3 | | 3 | |
| | | Finish Gralde Plugin for Overwriting Settings | 3 | | 8 | |
| | | Start Pitest Plugin Run from IDE | 2 | | 3 | |
| | | Visualize Latest Pitest Report | 3 | | 5 | |
| | | Cleanup Wiki and separate into subpages | 2 | | 2 | |
| | | Connect Color Bars with data from PiTest | 5 | | 5 | |
| | | Create a Logo fitting for the Plugin | 2 | | 2 | |

AMOS 2023ws02 - Planning Document

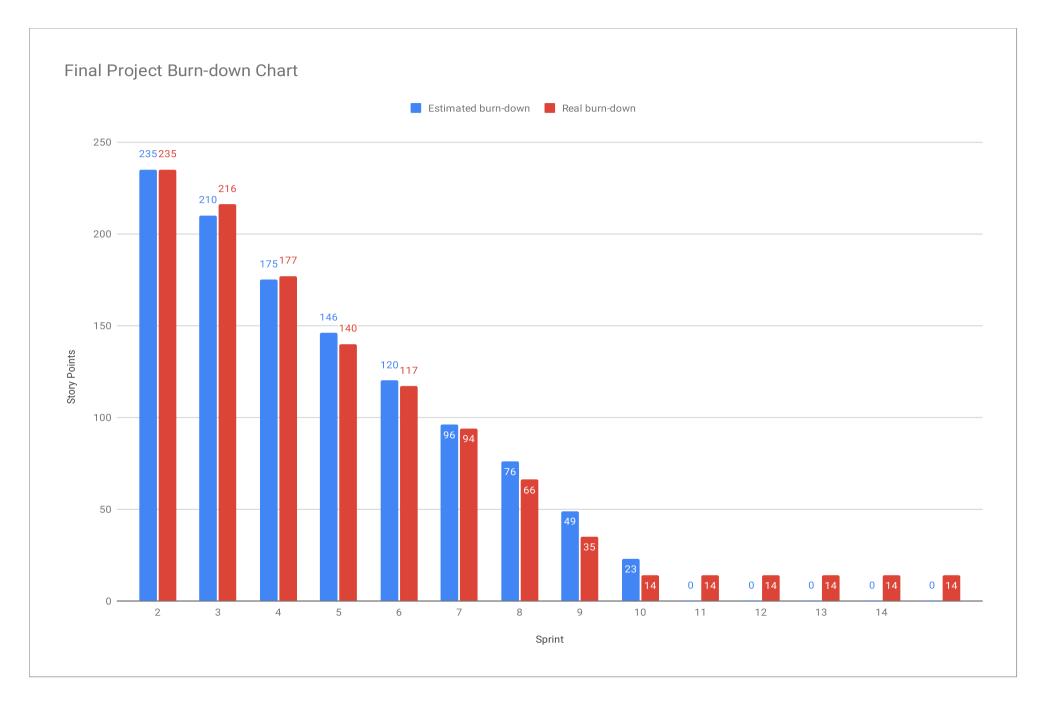


| Sprint | Goal | Feature Name | Est. Size | Est. Remaining | Real Size | Real Remaining |
|---------|---|--|-----------|---------------------|-----------|--------------------|
| Release | e | | | | | |
| | | | | | | |
| Total | | | 235 | 235 | | |
| Sprints | | | | | | |
| • | | | | Estimated burn-down | | Real burn- down |
| 1 | Research Basics | | 25 | | 19 | |
| | Software Architecture | | 35 | | 39 | |
| | Create Codebasics | | 29 | | 37 | |
| | Create first meaningful Features | | 26 | | 23 | |
| | Working with Test-Report Results | | 24 | | 23 | |
| | Create connection between our Plugin and Pitest Gradle Plugin | | 20 | | 28 | |
| | Create first working prototype with all core features | | 27 | 76 | 31 | 66 |
| 8 | Start Publishing Process | | 26 | 49 | 21 | |
| | Build more Visualizations | | 23 | 23 | 0 | |
| 10 | Add more customization | | 0 | 0 | 0 | 14 |
| | Refine Run Configuration | | 0 | 0 | 0 | 14 |
| | Technical Refinments and | | | | • | 4.4 |
| | Preperation Demo Day | | 0 | - | 0 | |
| | Final Cleanup | | 0 | _ | 0 | |
| | Project Summary and Retrospective | | 0 | 0 | 0 | 14 |
| Feature | 98 | | | | | |
| 1 | Research Basics | | | | | |
| | | Research Mutation Testing | 5 | | 5 | |
| | | Research Plugin IntelliJ IDE | 5 | | 5 | |
| | | Initialize Readme.md and Wiki | 5 | | 2 | |
| | | Create team logo | 5 | | 5 | |
| | | Familiarize with Pitest | 5 | | 2 | |
| 2 | Software Architecture | | | | | |
| | | Create a Runtime Components Diagram | 8 | | 8 | |
| | | Create a Code Components Diagram | 8 | | 8 | |
| | | Create a Technology Stack Summary | 5 | | 3 | |
| | | Create a Textual Explanation of Diagrams and Choices | 3 | | 3 | |
| | | Initialize Software Bill of Material | 3 | | 2 | |
| | | Research best way to read PIT data | 3 | | 5 | |
| | | Create Code Skeleton | 3 | | 5 | |

| Sprint | Goal | Feature Name | Est. Size | Est. Remaining | Real Size | Real Remaining |
|--------|---|--|-----------|-------------------|-----------|-------------------|
| | | Create a Coding & Git Guideline | 2 | | 5 | |
| 3 | Create Codebasics | | | | | |
| | | Create a Build Guide for our Project | 3 | | 1 | |
| | | Obtain and Transform the Test Report | 5 | | 8 | |
| | | TestConfigurator that can interact with PiTest | 8 | | 13 | |
| | | Create a gradle connector that can interact with the project | 5 | | 5 | |
| | | Research possible configurations and parameters that can be forwarded to Pitest | 3 | | 2 | |
| | | Add Visualization for the User | 5 | | 8 | |
| 4 | Create first meaningful Features | | | | | |
| | | Attend IntelliJ Webinar on how to get the Plugin into Marketplace on November 16th | 2 | | 2 | |
| | | Implement Context Menu for Class-Specific Run Execution | 8 | | 5 | |
| | | Color Bars on one side of the code indicating PiTest status | 8 | | 8 | |
| | | Research forward way of running Pitest | 5 | | 5 | |
| | | Develop and Document Basic Testing Framework for Plugins with Example | 3 | | 3 | |
| 5 | Working with Test-Report Results | | | | | |
| | | Research forward way of running Pitest | 5 | | 8 | |
| | | Create Build Process Video | 3 | | 3 | |
| | | Get the scope information to MutationMateRunConfiguration.kt | 3 | | 3 | |
| | | Implement Storing Old Pitest Runs | 8 | | 3 | |
| | | Improve GitHub CI Workflow | 2 | | 1 | |
| | | Load Pitest XML Files | 3 | | 5 | |
| 6 | Create connection between our Plugin and Pitest Gradle Plugin | | | | | |
| | | Initialize user, (technical) design and build/deploy documentation | 3 | | 3 | |
| | | Finish Gralde Plugin for Overwriting Settings | 3 | | 8 | |
| | | Start Pitest Plugin Run from IDE | 2 | | 3 | |
| | | Visualize Latest Pitest Report | 3 | | 5 | |
| | | Cleanup Wiki and separate into subpages | 2 | | 2 | |
| | | Connect Color Bars with data from PiTest | 5 | | 5 | |
| | | Create a Logo fitting for the Plugin | 2 | | 2 | |
| 7 | Create first working prototype with all core features | | | | | |
| | | Improve Scope Info | 3 | | 5 | |
| | | HTML Parser of Pitest Report | 5 | | 5 | |
| | | Connect real test report data with the PiTest result window | 3 | | 3 | |
| | | Implement hover action | 3 | | 5 | |

| Sprint | Goal | Feature Name | Est. Size | Est. Remaining | Real Size | Real Remaining |
|--------|---------------------------|--|-----------|-------------------|-----------|-------------------|
| | | Create more tests | 8 | | 8 | |
| | | Error message if companion Gradle plugin for Mutation Mate is missingError message if companion Gradle plugin for Mutation Mate is missing | 5 | | 5 | |
| | | | | | | |
| 8 | Start Publishing Process | | | | | |
| | | Publish Gradle Plugin | 3 | | 3 | |
| | | Start Publishing Process of IDE Plugin | 3 | | 2 | |
| | | Adjust colors according to Color Theme from IntelliJ | 3 | | 3 | |
| | | Show failed lines in the IntelliJ Problems Tab | 5 | | 5 | |
| | | Review runIDE IDE Version | 2 | | 2 | |
| | | Revisit Mutation Listener and possibility to replace Parser | 5 | | 5 | |
| | | Create more tests | 5 | | 1 | |
| 9 | Build more Visualizations | | | | | |
| | | Create a Tree Structure Tab for Test Results | 5 | | | |
| | | Rework Color Bars and Hover Action | 3 | | | |
| | | Improve not executable Error | 3 | | | |
| | | Implement Version of Loading the Result from the Reports/Pitest | 5 | | | |
| | | Adjust visualization for multiple classes | 3 | | | |
| | | Research Maven running | 3 | | | |
| | | Publish Gradle Plugin | 1 | | | |
| 10 | Add more customization | | | | | |
| 10 | Add more edistormization | Check compatibility with android project with pitest configured | | | | |
| | | Option for enabeling/disabeling | | | | |
| | | Enable to have a complete folder as scope | | | | |
| | | Try to automatically create a run configuration if none exists yet | | | | |
| | | Improve PIT Run Button Design | | | | |
| | | Improve Saving of PiTest Reports | | | | |
| | | Rework Loading of Test Results to Happen on Project Opening | | | | |
| 44 | Define Dom On " " | | | | | |
| 11 | Refine Run Configuration | Add some to my souffermenting | | | | |
| | | Add scope to run configuration | | | | |
| | | Try to automatically create a run configuration if none exists yet | | | | |
| | | Create draft for Demo day presentation slides | | | | |

| Sprint | Goal | Feature Name | Est. Size | Est. Remaining | Real Size | Real Remaining |
|--------|--|--|-----------|-------------------|-----------|-------------------|
| | | Get Scope Info to Maven | | | | |
| | | Release Jetbrains Plugin - Review from JetBrains | | | | |
| | | Add additional Chart for visualization | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 12 | Technical Refinments and Preperation Demo Day | | | | | |
| | | Create one demo day slide | | | | |
| | | Create demo day video | | | | |
| | | Refactoring of bug intense code parts | | | | |
| | | Improve Test Coverage | | | | |
| | | Show acticve mutators | | | | |
| | | Add project summary to first tab | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 13 | Final Cleanup | | | | | |
| | | create checklist for demo day presentation | | | | |
| | | update product glossary | | | | |
| | | finalize build documentation | | | | |
| | | finalize design documentation | | | | |
| | | finalize user documentation | | | | |
| | | optimise and clean up code | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 14 | Project Summary and Retrospective | | | | | |
| | | Create project summary | | | | |
| | | Create Project retrospective | | | | |
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AMOS 2023ws02 - Planning Document Definition of Done

| # | Feature Definition of Done | Sprint Release Definition of Done | Project Release Definition of Done |
|---|---|--|--|
| | All acceptance criteria are met. | | |
| | Work products are uploaded to the Github repository. | | |
| | A pull request is created for each related branch. | | |
| | The work products in the pull requests are reviewed. | | |
| | Github CI Workflow passes for the branches | | |
| | The corresponding branches are merged and closed. | | |
| | The bill of materials section of the planning documents is updated. | | |
| | Tests are written for the added features if suitable | | |
| | | A working and significant enhancement from the previous sprint is designated as a release candidate. | |
| | | Existing features and security protocols must remain operational. | |
| | | | The project can be successfully built and deployed |
| | | | All created tests are successful. |
| | | | Developer documentation is created. |
| | | | User documentation is created and updated |
| | | | The release has been approved by all team members |
| | | | The release has been approved by all team members |
| | | | All issues are closed |
| | | | All pull requests are closed |

AMOS 2023ws02 - Planning Document Documentation

| Type | Link / reference |
|----------------------------|---|
| General Documentation | https://github.com/amosproj/amos2023ws02-pitest-ide-plugin/wiki |
| User Documentation | https://github.com/amosproj/amos2023ws02-pitest-ide-plugin/wiki/User-Documentation |
| Technical Documentation | https://github.com/amosproj/amos2023ws02-pitest-ide-plugin/wiki/Technical-Documentation |
| Design Documentation | https://github.com/amosproj/amos2023ws02-pitest-ide-plugin/wiki/Design |
| Tech Stack | https://github.com/amosproj/amos2023ws02-pitest-ide-plugin/wiki/Technology-Stack |
| Build/Deploy Documentation | https://github.com/amosproj/amos2023ws02-pitest-ide-plugin/wiki/Builddeploy-documentation |
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AMOS 2023ws02 - Planning Document

Bill of Materials

| # | Context | Name | Version | License | Comment |
|----------------------|--|------------------------------|-------------------|--------------------------------------|---------|
| software components | | | | | |
| | org.w3c.dom.Element | interface Element | Java Platform SE8 | GNU GPL 2.0 with classpath exception | |
| | org.w3c.dom.Node | interface Node | Java Platform SE8 | GNU GPL 2.0 with classpath exception | |
| | java.io.File | class File | Java Platform SE7 | GNU GPL 2.0 with classpath exception | |
| | javax.xml.parsers.DocumentBuilderFactory | class DocumentBuilderFactory | Java Platform SE8 | GNU GPL 2.0 with classpath exception | |
| | https://pitest.org/ | Pitest | 1.15.3 | Apache License 2.0 | |
| | com.netflix.nebula:nebula-test | Nebula test plugin | 10.3.0 | Apache License 2.0 | |
| | https://jsoup.org/ | Jsoup | 1.17.1 | MIT Licence | |
| libraries | | | | | |
| | https://plugins.jetbrains.com/docs/intellij/welcome.html | Intellij Plugin SDK | ??? | Apache License 2.0 | |
| | commons-beanutils:commons-beanutils-core | Commons BeanUtils | 1.8.3 | Apache License 2.0 | |
| | org.spockframework:spock-core | Spock Framework | 2.2-groovy-3.0 | Apache License 2.0 | |
| tools | | | | | |
| | https://junit.org/junit5/ | Junit 5 | 5.10.1 | Eclipse Public License 2.0. | |
| | https://www.jetbrains.com/idea/ | Intellij IDE Community | 2023.2.4 | Apache License 2.0 | |
| developement process | | | | | |
| | https://groovy-lang.org/ | Groovy | 4.x | Apache License 2.0 | |
| | https://kotlinlang.org/ | Kotlin | 1.9.x | Apache License 2.0 | |
| | | | >=17.0.1 and <21. | Oracle Technology Network License | |
| build process | https://www.java.com/de/ | Java JDK | 0.0 | Agreement | |
| | https://github.com/gradle | Gradle | 8.6 | Apache License 2.0 | |
| publish process | | | | | |
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AMOS 2023ws02 - Planning Document Planning Poker

| Last Name | First Name | Value | | | |
|-----------|------------|-------|------|------------------|--|
| Erben | Emanuel | 5 | | | |
| Nützel | Felix | 5 | 5.00 | OK | |
| Heimbs | Lennart | | 0100 | O. (| |
| Böhm | Luca | | | | |
| Malliaros | Nikolaos | | 0 | No size | |
| Herzig | Tim Niklas | | 1 | Trivial size | |
| Fogarty | Liam | | 2 | Small size | |
| Oberson | Brianne | | 3 | Medium size | |
| Dargel | Olivia | | 5 | Large size | |
| | | | 8 | Very large size | |
| | | | 13 | Too large (size) | |
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