

|                               |   |
|-------------------------------|---|
| Project Name                  | Carbon Footprint Visualization  |
| Production system (if any)    | ...   |
| Test system (if any)          | ...   |
| GitHub repository             | <a href="https://github.com/amosproj/amos-ss2021-carbon-footprint">https://github.com/amosproj/amos-ss2021-carbon-footprint</a>                       |
| GitHub kanban board (project) | <a href="https://github.com/amosproj/amos-ss2021-carbon-footprint/projects/1">https://github.com/amosproj/amos-ss2021-carbon-footprint/projects/1</a> |
| Team T-shirt (black)          | <a href="https://www.shirtinator.de/loadBasket/gawEFWZioZC">https://www.shirtinator.de/loadBasket/gawEFWZioZC</a>                                     |
| Zoom-Meeting                  | <a href="https://fau.zoom.us/j/64835513630">https://fau.zoom.us/j/64835513630</a>   |
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| Last Name  | First Name | GitHub User Name  | Email Address             |
|------------|------------|-------------------|---------------------------|
| Anand      | Mani       | manifau           | mani.anand@fau.de         |
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| Scheiderer | Michael    | MichaelScheiderer | michael.scheiderer@fau.de |
| Toroslu    | Irem       | IremToroslu       | irem.toroslu@fau.de       |
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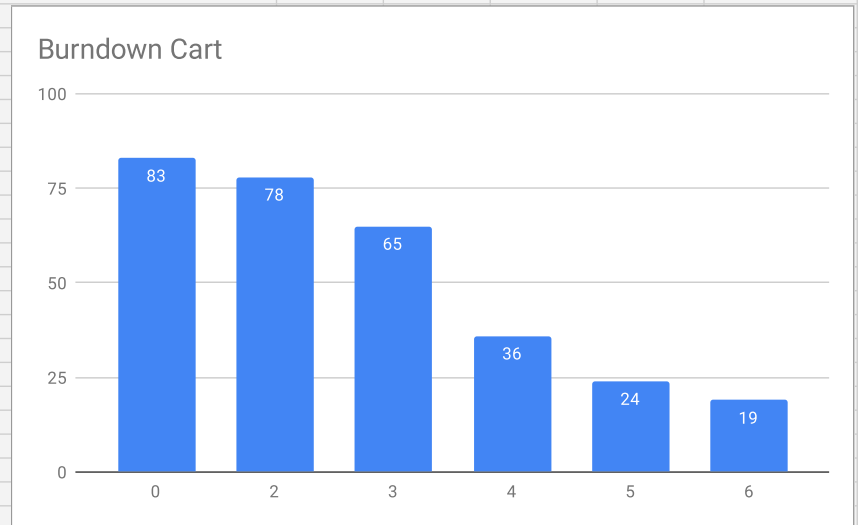
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|--------------------------------|---|
| <b>Goals</b>                   | Experience Agile/Scrum  |
|                                | Achieve our defined project mission   |
|                                | Develop software that is able to visualize the carbon footprint of some machinery / production environments (scenario) under different circumstances (calculations) |
|                                | Design a valuable product with functions that the user really uses  |
| <b>Meeting norms</b>           | Inform the others if you can't attend   |
|                                | Everyone shows up on-time   |
|                                | We do not interrupt each other  |
|                                | Attend all of the meetings  |
| <b>Working norms</b>           | Everyone contributes regularly  |
|                                | We value quality over quantity  |
|                                | Lines of comments (well documented) > Lines of Code   |
|                                | Recommendation: Visual Studio Code  |
|                                | Testing/Verification (Unit Testing)   |
| <b>Coordination norms</b>      | Scrum tools   |
|                                | People choose what they want to work on, unwanted work gets split up over all team members equally. (managed by Scrum Master)                                       |
|                                | Put everything non code related to the google drive folder  |
|                                | Every job has a responsible person  |
| <b>Communication norms</b>     | Email for important things  |
|                                | GitHub for Code related things  |
|                                | Slack for organizational and product related discussions  |
|                                | Protocol of the Meeting (in google drive, like a summary) - writing meeting minutes - documenting decisions   |
|                                | We check Email at least once a workday  |
| <b>Consideration norms</b>     | All important decisions made in the team meeting  |
|                                | Possibility of a emergency meeting with at least 1 PO, 2 SD   |
|                                | We discuss disagreement openly  |
|                                | We vote for a final resolution  |
| <b>Cont. improvement norms</b> | Using the kanban system to track the teams progress   |
|                                | Using the continuous demo releases to track the improvement of our system   |
| <b>Rewards</b>                 | To celebrate the achievement of a goal we will meet for a beer (or maybe a cocktail) if possible in person otherwise online   |
| <b>Sanctions</b>               | You must raise clear violations of the team contract  |
|                                | We apologize by writing a 4 line poem about how one will improve themselves (and the meaning of life) and share it with the team!                                   |

| #  | Meeting Day | Comment       | Coach | Product Owner     | Software Developer | Scrum Master                                     | Release Manager |
|----|-------------|---------------|-------|-------------------|--------------------|--|-----------------|
| 1  | 2021-04-14  |               | Yes   | Olyae, Scheiderer | Everyone else      | (Varanasi)                                       | (Anand)         |
| 2  | 2021-04-21  |               | Yes   | Olyae, Scheiderer | Everyone else      | Varanasi   | Dürsch          |
| 3  | 2021-04-28  |               |       | Olyae             | Everyone else      | Scheiderer                                       | Gandomkar       |
| 4  | 2021-05-05  |               | Yes   | Olyae             | Everyone else      | Scheiderer                                       | Oelhaf          |
| 5  | 2021-05-12  |               |       | Scheiderer        | Everyone else      | Olyae  | Toroslu         |
| 6  | 2021-05-19  |               | Yes   | Scheiderer        | Everyone else      | Olyae  | Varanasi        |
| 7  | 2021-05-26  | Mid-term due  | Yes   | Olyae, Scheiderer | Everyone else      | Wagner   | Wagner          |
| 8  | 2021-06-02  |               |       | Olyae, Scheiderer | Everyone else      | Wagner   | Anand           |
| 9  | 2021-06-09  |               |       | Olyae, Scheiderer | Everyone else      | Anand  | Dürsch          |
| 10 | 2021-06-16  |               | Yes   | Olyae, Scheiderer | Everyone else      | Anand  | Gandomkar       |
| 11 | 2021-06-23  |               |       | Olyae, Scheiderer | Everyone else      | Gandomkar  | Oelhaf          |
| 12 | 2021-06-30  |               |       | Olyae, Scheiderer | Everyone else      | Gandomkar  | Toroslu         |
| 13 | 2021-07-07  |               | Yes   | Olyae, Scheiderer | Everyone else      | Toroslu  | Varanasi        |
| 14 | 2021-07-14  | Demo day!     |       | Olyae, Scheiderer | Everyone else      | Toroslu  | Wagner          |
| 15 | 2021-07-21  | Retrospective |       | Olyae, Scheiderer | Everyone else      | N/A  | N/A             |
|    |             |               |       |                   |                    |  |                 |
|    |             |               |       |                   |                    |  |                 |
|    |             |               |       |                   |                    | (Assignments refer to start date / start sprint) |                 |

| Product Vision   | Project Mission  |
|--|--|
| <p>The vision of this project is to create a (web) application to visualize, compare and analyze the impacts such as global warming, ozone layer depletion, acidification, etc that come from the production, use, and end-of-life of a product or service. We aim to set the highest standards for environmental protection in the industry and urge business partners to share this ambition and cooperate with both customers and suppliers to strive for continual improvement. We calculate the carbon footprint and help our customers to understand the impacts and risks associated with it and offer alternatives.</p> <p>To present those numbers effectively, they need to be visualized. This is where the "Carbon Footprint Visualization" comes in. Salesman can use the visualization to directly show the customers the impact a product has on the environment and how the impact could be reduced with another version. For example, we could possibly convince customers to invest in something that reduces CO2 emissions, which maybe is more expensive now but will payout in the long run by slowing down global warming.</p> | <p>We pursue ambitious goals with regard to resource efficiency and environmental protection, and hence create long-term value by treating people and the environment in a responsible manner. The main objective of our environmental work is to prevent pollution and continually reduce the environmental impact of our activities in order to protect the environment for future generations.</p> <p>To meet these objectives, we will maintain and further develop a culture in which reducing the environmental impact over each product's life cycle is an integral part of our daily work practices.</p> |

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| Sprint | Status   | Source            | Impediment  | Resolution   |
|--------|----------|-------------------|---|--|
| 4      | Resolved | Industry Partner  | Connection/motivation from the industry partner with SDs missing                                | Industry Partners join next team meeting (05-12)   |
| 4      | Resolved | Industry Partner  | Unclear requirements from the industry partners (technologies)                                  | Weekly meetings with their SDs from India  |
| 5      | Resolved | Team              | Too many SDs assigned for the same tasks  | Improve communication (One person responsible for issue, you need to communicate with this person if you want to work on the issue)          |
| 5      | Resolved | SDs               | Commits are too large   | Split large commits in few smaller commits   |
| 5      | Resolved | SDs               | Libraries not been added to BOM and in the Readme file  | Add to team contract   |
| 6      | In-work  | SDs               | No enough mutual understanding of each other's code   | -At least one person have to review the code<br>-Assign two people to each issue for pair programming<br>-Rotate partners                    |
| 7      | Resolved | Industry Partner  | Dev team from the industry partner showing up late or not at all to negotiated meetings.        | We try to put our industry partner in cc, whenever contacting the Dev team, and try to do more communication via email.                      |
| 7      | In-work  | Team              | Mysterious Martins (Not everyone showed up to the meetings with image data)                     | Pictures will be provided after receipt of the Team T-Shirts.  |
| 7      | Resolved | SDs / Source Code | There is a lot of noise in the commits, as still some frontend files are not yet prettified.    | Prettier has been applied to all frontend code files. Team members that did not use prettier yet has been offered a helping hand in setup.   |
| 7      | Resolved | SDs               | A lot of work went into the backend, and we now found out that it might be replaced in the end. | This situation will not directly affect grading, as agile Methods are being graded. So the team should just focus on frontend tasks at hand. |
| 8      | In-work  | Team              | "Lets meet for a beer or something in July"   | A doodle for this meeting will be created at some point in June.   |
| 9      | In-work  | SDs               | Discussion about feature and branching in the beginning of the sprint                           | Have a short SD meeting after sprint meeting, same day   |
| 9      | In-work  | SDs               | To make sure if CI pipeline is working for all the commits                                      | Not ignore CI pipeline warnings while committing   |
| 9      | In-work  | SDs               | Not enough knowledge about backened working functionality                                       | Have a meeting with the backened developers, pair programming if needed to understand better   |
|        |          |                   |   |  |
|        |          |                   |   |  |
|        |          |                   |   |  |

| #  | Context                     | Name                  | Version | License | Comment   |
|----|-----------------------------|-----------------------|---------|---------|---|
| 1  | Frontend Framework          | React.js              | 16.13.1 | MIT     |   |
| 2  | Frontend Framework          | react-admin-dashboard | 2.0.0   | MIT     | <a href="https://github.com/llorentegerman/react-admin-dashboard/tree/v2-0-0">https://github.com/llorentegerman/react-admin-dashboard/tree/v2-0-0</a> |
| 3  | Frontend Framework          | react-hook-form       | 7.5.2   | MIT     | <a href="https://www.npmjs.com/package/react-hook-form">https://www.npmjs.com/package/react-hook-form</a>   |
| 4  | Frontend Framework          | react-jss             | 10.6.0  | MIT     | <a href="https://www.npmjs.com/package/react-jss">https://www.npmjs.com/package/react-jss</a>   |
| 5  | Frontend Framework          | react-router-dom      | 5.2.0   | MIT     | <a href="https://www.npmjs.com/package/react-router-dom">https://www.npmjs.com/package/react-router-dom</a>   |
| 6  | Frontend Framework          | simple-flexbox        | 2.3.2   | MIT     | <a href="https://www.npmjs.com/package/simple-flexbox">https://www.npmjs.com/package/simple-flexbox</a>   |
| 7  | Frontend Framework          | react-grid-system     | 7.1.2   | MIT     | <a href="https://www.npmjs.com/package/react-grid-system">https://www.npmjs.com/package/react-grid-system</a>   |
| 8  | Frontend Framework          | react-apexcharts      | 1.3.9   | MIT     | <a href="https://www.npmjs.com/package/react-apexcharts">https://www.npmjs.com/package/react-apexcharts</a>   |
| 9  | Backend: Framework          | .NET 5                | 5.0.0   | MIT     |   |
| 10 | Backend: Package            | AspNetCore.Proxy      | 4.2.0   | MIT     | <a href="https://www.nuget.org/packages/AspNetCore.Proxy/">https://www.nuget.org/packages/AspNetCore.Proxy/</a>                                       |
| 11 | Backend: Package            | Newtonsoft.Json       | 13.0.1  | MIT     | <a href="https://www.nuget.org/packages/Newtonsoft.Json/">https://www.nuget.org/packages/Newtonsoft.Json/</a>   |
| 12 | Frontend Framework          | w3.css                | 4.15.0  | MIT     | <a href="https://www.w3schools.com/w3css/">https://www.w3schools.com/w3css/</a>   |
| 13 | Static Code analysis        | CodeQL                |         | MIT     | Github tool   |
| 14 | PDF Generator               | jsPDF                 | 2.3.1   | MIT     | <a href="https://www.npmjs.com/package/jspdf">https://www.npmjs.com/package/jspdf</a>   |
| 15 | Frontend-Backend Connection | axios                 | 0.21.1  | MIT     | <a href="https://www.npmjs.com/package/axios">https://www.npmjs.com/package/axios</a>   |
| 16 | Frontend Framework          | Material-UI           | 4.11.4  | MIT     | <a href="https://www.npmjs.com/package/@material-ui/core">https://www.npmjs.com/package/@material-ui/core</a>   |
| 17 | Frontend Testing            | Enzyme                | 3.11.0  | MIT     | <a href="https://enzyme- npm (npmjs.com)">enzyme - npm (npmjs.com)</a>  |
| 18 | Frontend Testing            | Jest                  | 26.6.0  | MIT     |   |
| 19 | Frontend Testing            | identity-obj-proxy    | 3.0.0   | MIT     |   |

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