| **Project Name** | **EMBArk** |
|---|---|
| **Production system (if any)** | ... |
| **Test system (if any)** | ... |
| | |
| **GitHub repository** | https://github.com/amosproj/amos-ss2021-emba-service |
| **GitHub kanban board (project)** | https://github.com/amosproj/amos-ss2021-emba-service/projects/1 |
| | |
| **Team T-shirt (white)** | https://www.shirtinator.de/loadBasket/CLbKrkAi_Fe |
| **Team T-shirt (black) (men)** | https://www.shirtinator.de/loadBasket/C8wrNC2gQhA |
| **Team T-shirt (black) (women)** | https://www.shirtinator.de/en/loadBasket/OCuYnsZJW1- |
| | |
| **Additional materials** | ... |

| Last Name | First Name | GitHub User Name | Email Address |
|---|---|---|---|
| Vogt | Jaromir | diegiesskanne | jaromir.vogt@fau.de |
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| Wagner | Maximilian | MaximilianWagner | maximilian.b.wagner@fau.de |
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| ~~Vanteru~~ | ~~Mani Kumar~~ | ~~Mani1210~~ | ~~mani.vanteru@fau.de~~ |
| Annavarapu | Vamsi Krishna | Vkrishna09 | krishna.annavarapu@fau.de |
| Umesh | Vaishnavi | Vaish1795 | vaishnavi.umesh@fau.de |

| | |
|---|---|
| **Goals** | Learning objectives: Ensure all team members understand the objective. Continuouse Improvement of the needed skill set e.g. coding skill, social skills Interpersonal relationship objectives: Meeting all team members with respect and create a relaxed but object focused atmosphere Functional objectives: Time and skill efficient split of tasks and working. Provide a user-friendly and functional web service of e-m-b-a as a final product. |
| **Meeting norms** | Team is meeting on Wednesdays (mandatory) for Sprint session. We meet on Fridays (optional) to have a follow-up of the assigned tasks. We also meet on Mondays for final review before the next sprint. Additional meeting timings is 4:30 PM on Fri and Mon. |
| **Working norms** | Decisions should be made unanimously. If a teammember has a problem with a decision, everybody should try to find a compromise. Criticism should always be formulated constructive and should always be meet with understanding. Of course when team members face trouble or bigger tasks, the team is expected to collaborate and support the individuals. |
| **Coordination norms** | The current Scrum Master is responsible for a smooth process of the general meeting. He is expected to fill the role of the Moderator, to keep meetings on track and lead through the agenda and also the role of the Mediator, to resolve disagreements among the team. The Release Manager leads through the developed/technical part of sprint. |
| **Communication norms** | Apart from lecture/meetings, the team communicates via dedicated Slack channel. Slack should be checked regulary, response time should not exceed a day. In case of urgent matters theres also the option to call the concerning members. On general task like reviewing a PR there is a more relaxed deadline, unless its end of sprint. Personal Communication, especially topics regarding urgent matters, is always be possible. |
| **Consideration norms** | Seperate communications are allowed if there are no information withhold from the team. Disagreements between teams to be handled in presence of the Scrum master. Priority would be given to practices that have greater impact on the final outcome and the team will strive to achieve a compromise that fits all. |
| **Cont. improvement norms** | • Team's progress is tracked by how efficiently the team is able to break down problems into tasks and how good is the team with story-points estimation, through velocity charts etc<br>• Rate others' work: Good code practices. Proper test cases of the code engineers put in.<br>• Yes in case of a disagreement during a review or implementation discussion. |
| **Rewards** | Enjoy with a beer and pat-on-the back! Nominate the next RM. |
| **Sanctions** | For acceptable excuses, it it encouraged that team members notify beforehand any problems they are facing and other team members would pitch in to assist. Recurring laxity in commitment is not warranted and the reasons have to be communicated accross the board in this instance. There is a sanctions catalogue: each 30sec to late to meetings = 1 Push Up (recorded on video) |
| **General Norms** | Always be kind, Respect each other, Don't be too shy to talk openly about problems. Racism and Sexism is intolerable. Render assistance to others if necessary. |
| **Signature** | Bitan Saha,  Jaromir Vogt, Maximilian Wagner, Ashutosh Singh, Vaishnavi Umesh Ravi Chandra Achanta, Mani Kumar Vanteru, Vamsi Krishna Annavarapu |

| # | Meeting Day | Comment | Coach | Product Owner | Software Developer | Scrum Master | Release Manager |
|---|-------------|---------|-------|---------------|--------------------|--------------|-----------------|
| 1 | 2021-04-14 | | Yes | Bitan/ Krishna | Everyone else | N/A | N/A |
| 2 | 2021-04-21 | | Yes | Bitan/ Krishna | Everyone else | Maximilian | ~~Mani Kumar~~ |
| 3 | 2021-04-28 | | Yes | Bitan/ Krishna | Everyone else | Jaromir | Ashutosh |
| 4 | 2021-05-05 | | | Bitan/ Krishna | Everyone else | Vaishnavi | Ravi Chandra |
| 5 | 2021-05-12 | | Yes | Bitan/ Krishna | Everyone else | Ravi Chandra | Maximilian |
| 6 | 2021-05-19 | | | Bitan/ Krishna | Everyone else | Vamsi Krishna | Ashutosh |
| 7 | 2021-05-26 | Mid-term due | Yes | Bitan/ Krishna | Everyone else | Bitan | Vaishnavi |
| 8 | 2021-06-02 | | | Bitan/ Krishna | Everyone else | Jaromir | Jaromir |
| 9 | 2021-06-09 | | | Bitan/ Krishna | Everyone else | Ashutosh | Ravi Chandra |
| 10 | 2021-06-16 | | Yes | Bitan/ Krishna | Everyone else | Vaishnavi | Maximilian |
| 11 | 2021-06-23 | | | Bitan/ Krishna | Everyone else | Bitan | Vaishnavi |
| 12 | 2021-06-30 | | | Bitan/ Krishna | Everyone else | Maximilian | Jaromir |
| 13 | 2021-07-07 | | Yes | Bitan/ Krishna | Everyone else | Vamsi Krishna | Ashutosh |
| 14 | 2021-07-14 | Demo day! | | Bitan/ Krishna | Everyone else | | |
| 15 | 2021-07-21 | Retrospective | | Bitan/ Krishna | Everyone else | | |

| Product Vision | Project Mission |
|---|---|
| The long-term goal of EMBA Service is to provide containerized services employing a service backend. A user-friendly web application that uplinks the firmware images and generates a service report. The web UI allows the user to upload images and the generated reports remain embedded for long-term availability. Also, the web UI is capable of handling independent firmware scans while providing service managers with a dashboard overview of the services. | The use of EMBA service will enable the user with an interactive management console for maintaining reports generated for specific firmware images. Multi-user applicability is baked into the UI by containerizing the service backend thus allowing multiple users to simultaneously take advantage of the service thereby speeding up the overall process flow in the organization. Automatic management and retrieval of the generated reports from the service to have an in-depth overview of the project status. |

| Term | Definition |
|---|---|
| CVE (Common Vulnerabilities and Exposures) | reference-method for publicly known information-security vulnerabilities and exposures |
| firmware | Linux based firmware elegible to be analyzed by emba (e.g.: https://eu.dlink.com/de/de/products/dap-1330-n300-wi-fi-range-extender) |

| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
|---|---|---|---|---|---|---|---|---|
| | | | Total | | 111 | | | 111 |
| 1 | Initial setup | | | | 9 | | 9 | 102 |
| | | Getting to know and setup project | | | | | | |
| | | | Information on prior experience | 2 | | 2 | | |
| | | | Meeting with industry partner | 2 | | 2 | | |
| | | | Additional team meetings | 1 | | 1 | | |
| | | | Django or flask | 1 | | 1 | | |
| | | | Choice of IDE | 1 | | 1 | | |
| | | | Clone client repository | 2 | | 2 | | |
| 2 | Fundamentals | | | | 25 | | 29 | 77 |
| | | Deliver increment with basic user handling | | | | | | |
| | | | System setup and hands on | 3 | | 3 | | |
| | | | Navigation Header | 3 | | 3 | | |
| | | | Setup Docker project | 3 | | 3 | | |
| | | | Setup Django project | 3 | | 5 | | |
| | | | Project Linter and CI setup | 3 | | 3 | | |
| | | | Python sub processes for bash connection | 3 | | 3 | | |
| | | | Proper EMBA Integration | 3 | | 3 | | |
| | | | Freezing python version | 1 | | 1 | | |
| | | | Exploring Optimized libraries for sub processes | 3 | | 5 | | |
| 3 | Frontend services | | | | 23 | | 24 | 54 |
| | | Incremental enhancement | | | | | | |
| | | | Data fields for firmware uploader | 3 | | 5 | | |
| | | | Unzip functionality | 5 | | 3 | | |
| | | | Saving firmware image | 3 | | 3 | | |
| | | | Frontend integration | 2 | | 3 | | |
| | | | Websocket communication | 5 | | 5 | | |
| | | | ASGI setup | 5 | | 5 | | |
| 4 | Backend Services | | | | 17 | | 20 | 37 |
| | | Incremental enhancement | | | | | | |
| | | | CSRF cookie | 2 | | 5 | | |
| | | | Zipping generated reports | 2 | | 2 | | |
| | | | Backend job queue | 3 | | 5 | | |
| | | | Progress bar | 5 | | 3 | | |
| | | | MongoDB integration | 5 | | 5 | | |
| 5 | UI and backend functionalities | | | | 23 | | 27 | 14 |
| | | Incremental enhancement | | | | | | |
| | | | Setting up API endpoints | 3 | | 3 | | |
| | | | Frontend user login implementation | 3 | | 5 | | |
| | | | Processing emba log | 3 | | 3 | | |
| | | | Command parser | 3 | | 3 | | |
| | | | Emba service dashboard | 5 | | 5 | | |
| | | | Integration of datafields in front- and backend | 3 | | 5 | | |
| | | | Database table for authentication | 3 | | 3 | | |
| 6 | UI and backend functionalities | | | | 14 | | 12 | 0 |
| | | Incremental enhancement | | | | | | |
| | | | Setup remote server | 3 | | 2 | | |

| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
|---|-------|------|--------------|---------------------|--------------------|---------------------|--------------------|-----------|
|   |       |      | Save flag info | 2 |  | 2 |  |  |
|   |       |      | Duplicate file uploads | 3 |  | 3 |  |  |
|   |       |      | Queue job from frontend | 3 |  | 3 |  |  |
|   |       |      | Submit form refresh | 3 |  | 2 |  |  |
|   |       |      |  |  |  |  |  |  |
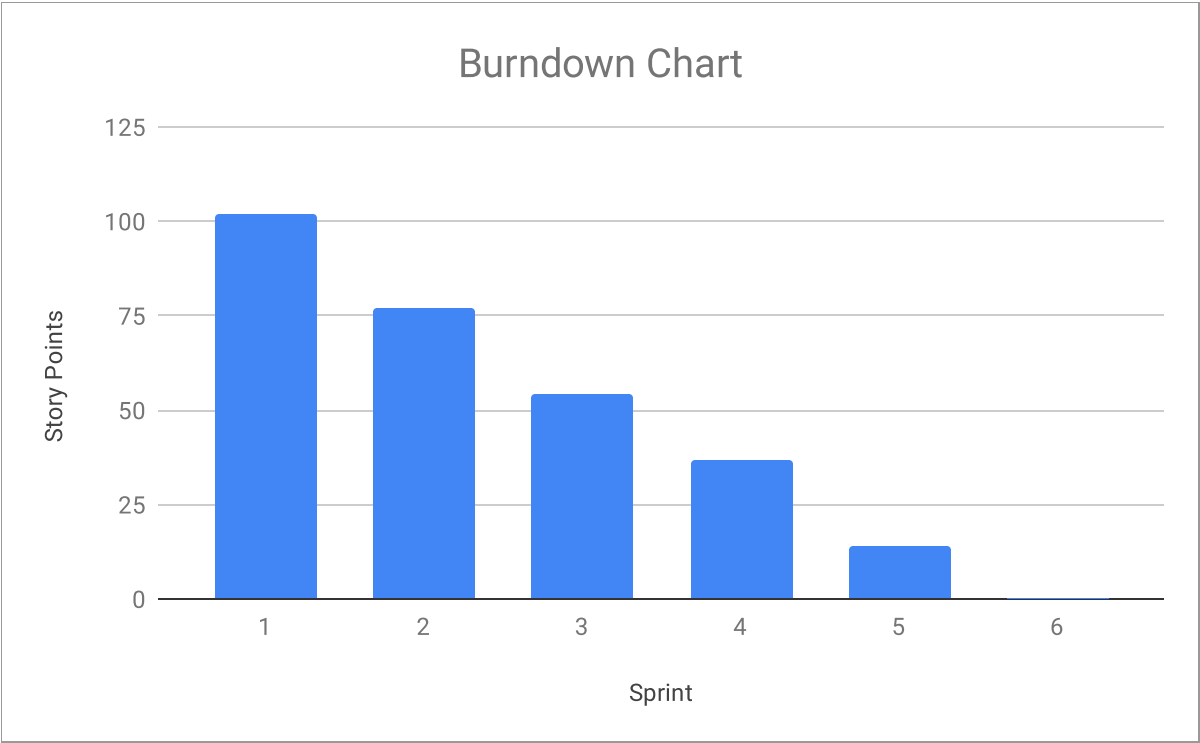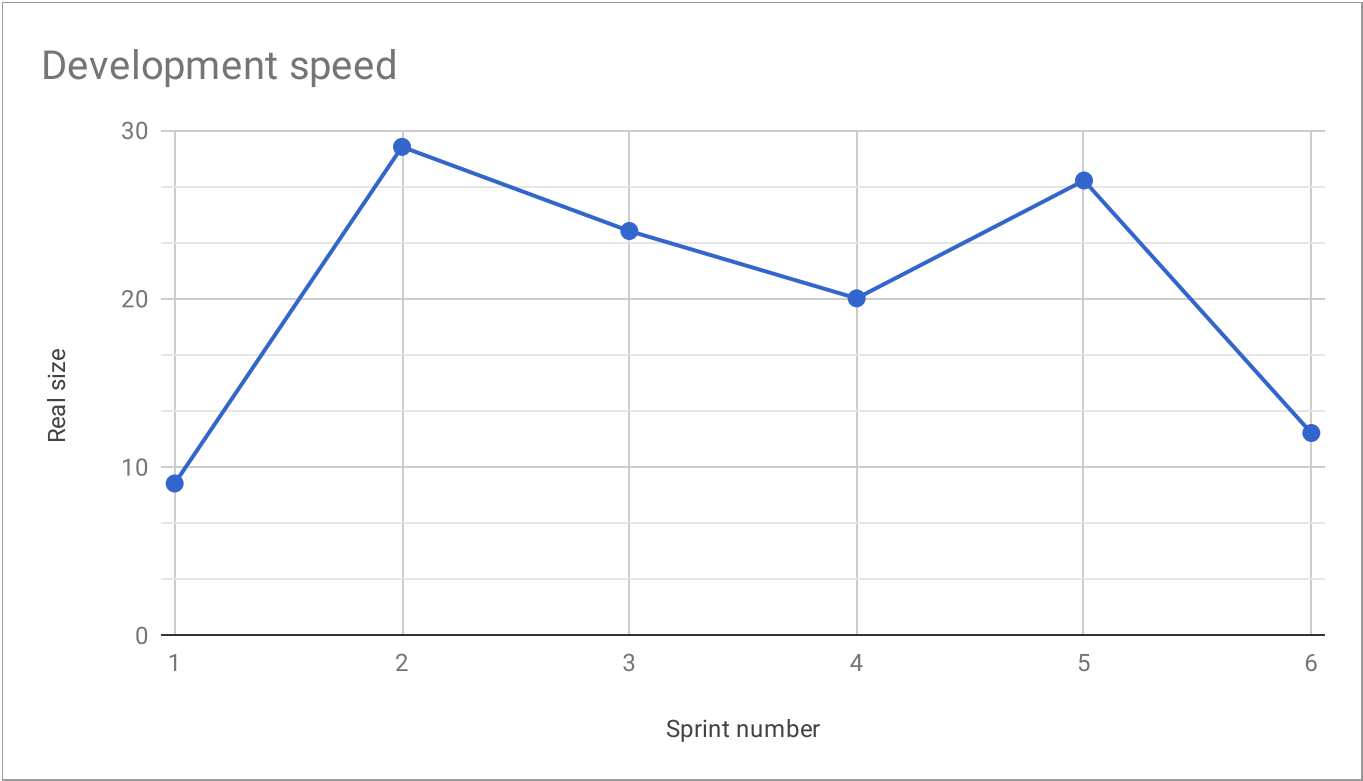
Burndown Chart

Development speed

| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
| 7 | Feature Improvement | | | | | | | |
| | | Improvement | | | | | | |
| | | | Alert box | | | | | |
| | | | Real time data reading | | | | | |
| | | | Image uploader page refresh | | | | | |
| | | | Ability to delete firmware image | | | | | |
| | | | | | | | | |
| 8 | Implementation of features in Dashboard | | | | | | | |
| | | Incremental enhancement | | | | | | |
| | | | Central Dashboard part 1 | | | | | |
| | | | Central Dashboard part 2 | | | | | |
| | | | Central Dashboard part 3 | | | | | |
| | | | | | | | | |
| 9 | Report Generation | | | | | | | |
| | | Incremental enhancement | | | | | | |
| | | | Reporting dashboard download and search reports | | | | | |
| | | | Reporting dashboard functioning | | | | | |
| | | | Redesign of EMBA report | | | | | |

| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
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|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
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|---|-------|------|--------------|---------------------|--------------------|---------------------|--------------------|-----------|
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| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
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| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
|---|-------|------|--------------|---------------------|---------------------|---------------------|---------------------|-----------|
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| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
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| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
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| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
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| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
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|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
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|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
| | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
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|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
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|---|-------|------|--------------|---------------------|--------------------|---------------------|--------------------|-----------|
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|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
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|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
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|---|---|---|---|---|---|---|---|---|
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|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
| | | | | | | | | |

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|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
| | | | | | | | | |

| # | Theme | Goal | Feature Name | Est. Size (Feature) | Est. Size (Sprint) | Real Size (Feature) | Real Size (Sprint) | Burn-Down |
|---|-------|------|--------------|---------------------|--------------------|--------------------|--------------------|-----------|
| | | | | | | | | |

| Sprint | Status | Source | Impediment | Resolution |
|---|---|---|---|---|
| 2 | Resolved | | POs got issues getting a grasp of the architecture. More Input from the SDs on Architecture/Granularity. | Improved the communication between SDs and POs on open questions. Emphasize the importance of standup emails. Everybody is happy to discuss open issues, just ask for assistance. |
| 2 | Resolved | | No SD felt responsible for reviewing PRs | SD setting atleast 2 reviewers for PRs |
| 2 | In-work | | Team meetings with floating times, complicate/extend planning for team members | |
| | | | | |
| 3 | Resolved | Bitan | see above, its tricky to find a time that works for everyone, excuses for single meetings are no problem but in general we should have a fix time | We found a time slot everybody can work with. (Mon and Fr 4:30 pm) If somebody can't make it, we record our zoom session. |
| 3 | Resolved | Vaishnavi | different time zone so meeting times can be challenging | see above |
| | In-work | Ashutosh | product road map for planing purposes | We had a meeting on that on that on friday, but this process is still ongoing |
| 3 | In-work | Jaromir | complex big project setup | With everybody working on the project, one is getting a better understanding of the project setup so no extra meetings were necessary |
| 3 | In-work | Max | More frequency on the git hub pull requests and pushes | We can still improve on this |
| | | | | |
| 4 | In-work | Jaromir | User stories to be formulated in a detailed way | Improving the communication between the SD's and PO's in order to formulate better stories knowing the technical aspects. |
| 4 | In-work | Ashutosh | Everyone to be aware of the documentation by Siemens as well as by us and check for any problems | In progress to understand the documentation of already existing features by the client. |
| 4 | Resolved | Ravi | We have more tasks in product backlog for the SDs to take up once they are done with the tasks | In the last meeting we got a better picture on what has to done and realised about the further tasks enough for everyone to work through the sprint. |
| 5 | In-work | Maximilian | we could improve the documentation and communicate inside the team | Meet quite often and understand the work and collaborate as a team to complete the tasks |

| Sprint | Status | Source | Impediment | Resolution |
|--------|--------|--------|------------|------------|
|        |        |        |            |            |
|        |        |        |            |            |
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| # | Feature Definition of Done | Sprint Release Definition of Done | Project Release Definition of Done |
|---|---|---|---|
| | Code review from peers has been completed and passed<br> - Adheres to coding guidelines<br> - Commits are not squashed<br> - Code is checked into the repository<br> - Code is fully implemented and commented | Code review passed<br> - Code is successfully merged onto the master branch after reviewing merge request<br> - Clean and Readable code is passed<br> - Passes Linter & prettier checks before allowing pull request<br> - Branch was checked out locally<br> - Continuous Integration build passing | Application is working on different devices and screen sizes |
| | Unit tests for backend have been written and are passing | All tests are passing<br> - Unit tests are passing<br> - Performance tests passed | Project builds without errors |
| | Manual performance tests on the browser are passing | All known critical bugs are fixed | No open known bugs are existent |
| | No critical bugs are open | | All unit & functional tests are green (for backend) |
| | | | Manual performance tests on the browser is successful |
| | | | The code in Github is well documented and enough information is provided |

| Type | Link / reference |
|------|------------------|
| Technical Documentation | https://github.com/amosproj/amos-ss2021-emba-service/wiki/Technical_Documentation |
| Build/deploy documentation | https://github.com/amosproj/amos-ss2021-emba-service/wiki/Build-Deployment_Documentation |
| User documentation | https://github.com/amosproj/amos-ss2021-emba-service/wiki/User_Documentation |

| \ | Context | Name | Version | License | Comment |
|---|---------|------|---------|---------|---------|
| 1 | OS | Docker | 20.1 | Apache License 2.0 | |
| 2 | OS | Docker-compose | 1.27 | Apache License 2.0 | |
| 3 | OS | Kali Linux | 2021.1 | GPL-3.0 License | Version depending on emba service |
| 4 | Backend Framework | Django | 3.2 | BSD License | |
| 5 | Backend Framework | Channels | 3.0.3 | BSD License | |
| 6 | Backend Framework | Hypercorn | 0.11.2 | MIT License (MIT) | |
| 7 | Database | MongoDB | 4.4 | Apache License 2.0 | Version depending on emba service |
| 8 | main | emba | - | GPL-3.0 License | Not versioned since still in development |
| 9 | Linting | pycodestyle | 2.7.0 | MIT License | |
| 10 | Testing | pytest | 6.2.3 | MIT License | |
| 11 | Frontend | HTML5 | | W3C License | |
| 12 | Frontend Styling | CSS | | | |
| 13 | Frontend | Bootstrap | | | |
| 14 | Frontend | Fontawesome icons | | | |
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| Last Name | First Name | Value | | | |
|---|---|---|---|---|---|
| Vogt | Jaromir | 3 | | | |
| Wagner | Maximilian | 3 | | **3.00** | **OK** |
| Singh | Ashutosh | 3 | | | |
| Umesh | Vaishnavi | 3 | | | |
| Achanta | Ravi Chandra | 3 | | 0 | No effort |
| Vanteru | Mani Kumar | 3 | | 1 | Minimal effort |
| | | | | 2 | Small effort |
| Saha | Bitan | | | 3 | Medium effort |
| Annavarapu | Vamsi Krishna | | | 5 | Large effort |
| | | | | 8 | Very large effort |
| | | | | 13 | Too large effort |