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| **Week Number- 1** | **Date** | **From: 04/09/2022** | **To: 10/09/2022** |
| **Task Assigned By Supervisor:**  **Exploring compatibility of wasm-pack with other libraries.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **05/09/2022** | |
| **Brief report on achievement by student:**  **We found that wasm-pack is compatible with webpack, react-app, Vue-app, and angular-app, while wasm-pack can be used with any of the following libraries and frameworks.**  **We decided on using webpack bundler for compiling our project.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **05/09/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **08/09/2022** |

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| **Week Number- 2** | **Date** | **From: 11/09/2022** | **To: 17/09/2022** |
| **Task Assigned By Supervisor:**  **Exploring languages compatible with wasm.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **12/09/2022** | |
| **Brief report on achievement by student:**  **We found that wasm is compatible with multiple nearly all low-level languages including**  **C++, C, C#, Rust, Ruby, and JavaScript.**  **We decided on using Rust in our project as Rust provides a faster application to wasm-pack on compiling in comparison to other languages.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **12/09/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **15/09/2022** |

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| **Week Number- 3** | **Date** | **From: 18/09/2022** | **To: 24/09/2022** |
| **Task Assigned By Supervisor:**  **Exploring Frontend options.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **19/09/2022** | |
| **Brief report on achievement by student:**  **We found multiple platforms which can provide an excellent frontend and are compatible with webpack and can use wasm in some other forms.**  **The platforms we explored include React, Angular, Vue, Nextjs, Php, Yew, Html, etc.**  **Out of all the explored platforms we decided on using react for frontend as it is most easy to work with compared to others.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **19/09/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **22/09/2022** |

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| **Week Number- 4** | **Date** | **From: 25/09/2022** | **To: 01/09/2022** |
| **Task Assigned By Supervisor:**  **Exploring Project Managers.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **26/09/2022** | |
| **Brief report on achievement by student:**  **To work in a team we require a project manager; which can provide our team with power and support so that we can work more efficiently and increase our productivity.**  **We found that Git or Github provides streamlined storage and applications which can help us.**  **We decided to make an org with our team as member and uploaded our project on github so that we can work from different places on same codebase.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **26/09/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **29/09/2022** |

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| **Week Number- 5** | **Date** | **From: 02/10/2022** | **To: 08/10/2022** |
| **Task Assigned By Supervisor:**  **Setting Up a Basic setup for the project to work with.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **03/10/2022** | |
| **Brief report on achievement by student:**  **Setting up a project is the most important and complicated step.**  **We used wasm-pack lib provided by cargo and rustup to initialize the basic setup and later used react in the frontend folder to include the displaying of the project on the browser.**  **This Compilation of whole projects in production or development mode is carried out by webpack which provides an asynchronous flow of backend to frontend as wasm can only accept a single async import.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **03/10/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **06/10/2022** |

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| **Week Number- 6** | **Date** | **From: 09/10/2022** | **To: 15/10/2022** |
| **Task Assigned By Supervisor:**  **Exploring the basics of image transformation.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **10/10/2022** | |
| **Brief report on achievement by student:**  **After setting up the project we started exploring the basics of image transformation as our project totally depends on image transformation and its application.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **10/10/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **13/10/2022** |

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| **Week Number- 7** | **Date** | **From: 16/10/2022** | **To: 22/10/2022** |
| **Task Assigned By Supervisor:**  **Exploring and deciding the number of applications to perform on the image in the following term.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **17/10/2022** | |
| **Brief report on achievement by student:**  **After gathering data on image transformation we came across multiple applications which can be carried out on the image ranging from higher level processes like applying effects like cartonify, filtering image on the color basis, etc to lower level transformations like crop, rotate, grayscale, zoom, pixelate, etc.**  **We decided to work with lower-level applications as our level of understanding of image processing and the time allotted to work with them is extremely limited.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **17/10/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **20/10/2022** |

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| **Week Number- 8** | **Date** | **From: 23/10/2022** | **To: 29/10/2022** |
| **Task Assigned By Supervisor:**  **Exploring the algorithm for crop function.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **23/10/2022** | |
| **Brief report on achievement by student:**  **For our project to work required to write the backend which can provide applications on images, to do so we require highly efficient algorithms for carrying out the applications in the project.**  **We took references for the algorithms from multiple platforms ranging from books to Wikipedia while exploring other people’s achievements and taking references from articles and published works.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **24/10/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **27/10/2022** |

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| **Week Number- 9** | **Date** | **From: 30/10/2022** | **To: 05/11/2022** |
| **Task Assigned By Supervisor:**  **Exploring the algorithm for Rotate, zoom function.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **31/11/2022** | |
| **Brief report on achievement by student:**  **For our project to work required to write the backend which can provide applications on images, to do so we require highly efficient algorithms for carrying out the applications in the project.**  **We took references for the algorithms from multiple platforms ranging from books to Wikipedia while exploring other people’s achievements and taking references from articles and published works.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **31/10/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **03/11/2022** |

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| **Week Number- 10** | **Date** | **From: 06/11/2022** | **To: 12/11/2022** |
| **Task Assigned By Supervisor:**  **Exploring the algorithm for flip function.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **07/11/2022** | |
| **Brief report on achievement by student:**  **For our project to work required to write the backend which can provide applications on images, to do so we require highly efficient algorithms for carrying out the applications in the project.**  **We took references for the algorithms from multiple platforms ranging from books to Wikipedia while exploring other people’s achievements and taking references from articles and published works.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **07/11/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **10/11/2022** |

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| **Week Number- 11** | **Date** | **From: 13/11/2022** | **To: 19/11/2022** |
| **Task Assigned By Supervisor:**  **Exploring the algorithm for the Scaling function.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **14/11/2022** | |
| **Brief report on achievement by student:**  **For our project to work required to write the backend which can provide applications on images, to do so we require highly efficient algorithms for carrying out the applications in the project.**  **We took references for the algorithms from multiple platforms ranging from books to Wikipedia while exploring other people’s achievements and taking references from articles and published works.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **12/11/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **17/11/2022** |

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| **Week Number- 12** | **Date** | **From: 20/11/2022** | **To: 26/11/2022** |
| **Task Assigned By Supervisor:**  **Checking Complete Backend.** | | | |
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| **Supervisor’s Signature (while Assigning task)** | |  | |
| **Date of task allocation-** | | **21/11/2022** | |
| **Brief report on achievement by student:**  **All our decided functions algorithms are completed.**  **We decided to run tests on them and check whether they are efficient or not.**  **While efficiency is a matter of importance we also decided to try printing results in the console log for verification of the backends’ functionality.** | | | |
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| **Report of Supervisor-** | **Satisfactory/ Not Satisfactory/**…………….. | | |
| **Remarks / Instructions:** | | | |
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| **Supervisor's Sign. (1st meeting of week)** |  | **Date** | **21/11/2022** |
| **Supervisor's Sign.(2nd meeting of week)** |  | **Date** | **24/11/2022** |