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| **KW** | **Arbeitsbericht** | Σ |
|  | Tong Lu |  |
| 19 | * Participate in group meetings * Discuss the technologies to be used * Preliminary architecture | 8h |

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| **KW** | **Arbeitsbericht** | Σ |
|  | Tong Lu |  |
| 20 | * Redefine and test JSON format with the front-end team * Learn RabbitMQ. * Build a test demo using FastAPI. * Tested MongoDB database under Docker. | 8h |

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| **KW** | **Arbeitsbericht** | Σ |
|  | Tong Lu |  |
| 21 | * Meet with the front-end team to discuss JSON format * Determine JSON format * Use Python to develop JSON file verification module * Write test cases to test functions * Provide demo | 10h |

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| **KW** | **Arbeitsbericht** | Σ |
|  | Tong Lu |  |
| 22 | * Modify JSON format * Modify quantum\_validator | 6h |

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| **KW** | **Arbeitsbericht** | Σ |
|  | Tong Lu |  |
| 23 | * Containerize quantum validator * Use more test cases to test quantum\_validator | 6h |

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| **KW** | **Arbeitsbericht** | Σ |
|  | Tong Lu |  |
| 24 | * /api/dataset : This endpoint is used to manage (create, read, update, delete) static reference data for benchmarking, such as the definitions of quantum encodings, Ansatz circuits, and datasets. * /api/run : This endpoint is used to start a new benchmark test. It saves the run request to the database and sends a task to a message queue (RabbitMQ) to be processed asynchronously by a background worker. * /api/result : This endpoint is responsible for storing and retrieving the results of the benchmark tests. It not only returns key metrics like loss and accuracy but also queries and displays detailed information about the associated encoding and Ansatz for that result. | 16h |

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| **KW** | **Arbeitsbericht** | Σ |
|  | Tong Lu |  |
| 25 | * Test /api/datase, /api/run, /api/result * Write the first version of the document * uniform across /run, /dataset, and /result endpoints * Add router | 12h |

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| **KW** | **Arbeitsbericht** | Σ |
|  | Tong Lu |  |
| 26 | * Started merging quantum\_validator and API modules * Improved documentation | 6h |