

Date of Report	<i>18 August 2022</i>
Report Period	<i>12 August – 19 August 2022</i>
Name of Project	<i>A web application for the AI research community in South Africa - AI-Web</i>
Name of Client	<i>Deshen Moodley</i>
Team member 1	<i>Shreeya Khoosal, KHSSHR001</i>
Team member 2	<i>Rauseenah Upadhey, UPDRAU001</i>
Team member 3	<i>Kauthar Orrie, ORRKAU001</i>
Task Activities during the report period:	<ul style="list-style-type: none"> • TASK 1: This task activity consisted of completing the MERN tutorial in order to create a working pipeline from the backend to frontend as well as to set up and test a local server. All 3 members completed this tutorial independently to ensure that we were proficient with the work flow and tools necessary for the project. • TASK 2: Attempting to customize and modify the code from the tutorial such that it implemented/contained functionality relevant to our specific project. This consisted of importing our data from Excel into MongoDB. All 3 members assisted with this task and Rauseenah made substantial progress however none of us were able to successfully import the data. • TASK 3: Exploring an alternative framework given that MongoDB did not seem viable. This task consisted of setting up Spring Boot and creating multiple Java and Javascript classes. Kauthar primarily headed up this task however both members assisted in developing the code. • TASK 4: Assessing project progress in relation to core functionality, planning trajectory and demo, as well updating relevant documentation. All member assisted in planning the schedule for the week however Shreeya assumed the majority of these tasks as the team lead.

<p>Planned activities for the next report period:</p>	<ul style="list-style-type: none"> → Develop interface such that it can accept input in more user friendly format instead of SQL queries. → Implement functionality to enable manual updates to the data (flesh out CRUD functionality) → If feasible, create login portal for administrators, in order to control access to certain functions → Develop functions that track trends/patterns in the data and implement code to display these trends visually on the interface → Explore scope for including MAG research data within the structure of our application → Revise and update documentation: update the submitted documentation and project plan according to current project progress → Prepare weekly reports: write up weekly reports to ensure that progress of the current week is taken is being taken and previous problems are solved.
<p>Problems:</p>	<ul style="list-style-type: none"> → A substantial problem encountered within this stage of the project was that we were unable to import our data from Excel into MongoDB. Given the delay that this was causing, we decided to use an alternative DBMS framework (Spring Boot) → The group struggled with source control issues as we had to frequently check and update our access rights for our Github project in order to ensure that all members could clone and add to the code base. <p><i>NOTE:</i> The problems raised in the previous Progress Report were addressed. We were able to access the MAG data via RDF dumps and the prototype was completed before the deadline.</p>

Notes/Minutes from client meeting (12 August 2022):

- Need to develop working pipeline from backend to frontend eg a core query
- “Hello world” tutorial on framework
- Need test data for demo
- Database = backend
- Interface not a priority
- Local server is fine
- Could develop Server class in python
- Database + localhost queries (get working for demo)
- Develop Server API and client program
- 20 min demo - get there early w/ everything ready
- Structure of demo:
 - 5 mins - high level overview (framework + progress)
 - 5 mins - display working code
 - 5 min - proposed trajectory
- Demo is primarily about getting good feedback
- Sparkle endpoint (SQL for graph database) for MAG data, live retrieval or try and download files
- Rdf dumps downloadable