**GeoPasture Project Status Report**

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# **PROJECT TITLE: GeoPasture**

| NAME | REG.NO | ROLE |
| --- | --- | --- |
| Faith Mosonik | SCT211-0044/2022 | Project Lead and frontend lead |
| Joan Kinoti | SCT211-0042/2022 | Scrum Master and Backend developer |
| Sam Kelly | SCT212-0164/2022 | Backend lead and UI designer |
| Melanie Minayo | SCT211-0043/2022 | UI Designer and frontend developer |
| Moses Odeny | SCT211-0099/2022 | Backend Developer and Research analyst |
| Lynn Nyanduko | SCT211-0092/2022 | UI designer and frontend developer |

# **Project Executive Summary**

GeoPasture aims to develop a mobile application to facilitate the peaceful coexistence of Kenyan pastoralists and agriculturalists by addressing resource conflicts. The app will provide real-time updates on pasture availability, weather forecasts, and GPS-enabled tracking of animals, empowering pastoralists to make informed decisions. By fostering dialogue and providing vital decision-making support, the application seeks to enhance mutual understanding and collaboration between these communities, ensuring sustainable management of shared resources.

# **DAILY REPORTS**

| **DATE** | **DAILY ACHIEVEMENT** | **CHALLENGES/BLOCKERS** |
| --- | --- | --- |
| 02/05/2024 | Attended induction meeting | N/A |
| 03/05/2024 | Formed a group  Online self-paced certifications | N/A |
| 06/05/2024 | Online self-paced certifications | N/A |
| 07/05/2024 | Online self-paced certifications | N/A |
| 08/05/2024 | Attended the briefing meeting on expectations | N/A |
| 09/05/2024 | Formulated ground rules for the team  Assigned development tasks to everyone based on their skills and interests  Did research on the problem | Failed to completely understand the actual situation on the ground |
| 10/05/2024 | Public Holiday! | N/A |
| 13/05/2024 | Finalised on the project work plan  Design of the website UI kicked off  Modelling of the database  Attended Online Webinar | N/A |
| 14/05/2024 | Design for the Website UI Continued  Finalised on poster and submitted  Attended IP training session in the afternoon | N/A |
| 15/05/2024 | Finalised on website UI  Meeting with Dr.Nderu  Online Self-paced certifications | N/A |
| 16/05/2024 | Website Development tasks were assigned and it kicked off the same day  Worked on the presentation slides  Attended IP training session in the afternoon | N/A |
| 17/05/2024 | Did the pitch presentation  Attended IP training session | Our laptops lacked HDMI ports instead they have VGA ports and so we had to borrow a laptop hence couldn’t present our actual website |
| 20/05/2024 | Did a progress check with the team  Website development continued  We did a slight modification to the website UI pages  Poster designing  Submitted a new name for review by Dr.Isaac Oteyo and Dr.Nderu  Attended the final IP training session | We are not content with the photos we have had to use in the website because they are not giving an authentic look. |
| 21/05/2024 | Implemented the changes on the website UI  Poster designing | Failed to get immediate feedback on the change of name |
| 22/05/2024 | Poster modification and finalisation.  Attended a talk by Samuel Kamochu.  Attended the online webinar by Cardano 360 on unlocking innovation and growth with Blockchain. | We finally got feedback on the name but we were asked to still brainstorm hence poster submission had to delay |
| 23/05/2024 | Website integration of the various pages that the team members were working on into one  Brainstormed on a new name and finally settled on one and submitted for review.  Based on feedback we redid the poster because it wasn’t satisfactory. | N/A |
| 24/05/2024 | Worked on the project write-up.  Finalised the new poster.  Website integration of all pages was completed.  Attended a Huawei session in the afternoon | N/A |
| 27/05/2024 | Adding of functionality and responsiveness to our website  Updated the new poster to reflect new name  Research on implementation of the features of the app commenced such as how we will implement real time pasture updates  Online self-paced Certifications | N/A |
| 28/05/2024 | Worked on responsiveness of the website  Information gathering of the Implementation of app features continued.  Submitted poster for review. | N/A |
| 29/05/2024 | Website Functionality was implemented  Attended online webinar by Jason Fox on harnessing power of IOT with FIWARE | N/A |
| 30/05/2024 | Mobile UI designs started  Some members delved into research  The frontend team worked on the website and finalised the functionality | N/A |
| 31/05/2024 | Mobile UI designs continued  Attended the Industry lecture by Edna Kiome on emerging as innovators in healthcare | N/A |
| 03/06/2024 | Implemented the feedback given during the saturday website review  Mobile app UI design continued | N/A |
| 04/06/2024 | Did a progress check meeting with the team  We did a design flow for the application | N/A |
| 05/06/2024 | We went out for a field visit in the environs of Juja farm |  |
| 06/06/2024 | We worked on the field visit report  The UI/UX team worked on the mobile app UI designs | N/A |
| 07/06/2024 | Mobile UI designs continued  Research on implementation of features within the app continued  Attended a session on personal branding in the afternoon | N/A |
| 10/06/2024 | We did a stand up meeting and laid out the schedule for the week  Mobile UI designs modification  Research on Geofencing  Woked on the website build | The website wasn’t building as expected |
| 11/06/2024 | Research on Geofencing continued  Fine tuned the website by adding photos taken during the field visit  Mobile UI designs were fine tuned | N/A |
| 12/06/2024 | Mobile UI designs were modified  Research on Geofencing continued  Website modification was done \ | N/A |
| 13/06/2024 | We did a meeting to discuss our research findings on Geofencing  We had a presentation to present the progress of our project | N/A |
| 14/06/24 | Final modifications were made to the website based on the review done on Thursday  Mobile UI design modifications were also done and completed | N/A |
| 17/06/24 | Public Holiday | N/A |
| 18/06/24 | We set up the development environment  We had a review of the progress of our project with Dr.Nderu | Most of the members we having issues with setting up the development environment on their machines |
| 19/06/24 | We worked on the issues encountered while trying to set up the development environment and this took us the whole day  The UI team worked on the app UI designs trying to make it better based on feedback given to us during the review | N/A |
| 20/06/24 | Development of the app started with the authentication pages  We attended a session to sign the legal documents | N/A |
| 21/06/24 | Development of the app continued  Further practice using flutter continued | N/A |
| 24/06/24 | Development of the app continued | N/A |
| 25/06/24 | Members worked on the development of the app using flutter | N/A |
| 26/06/24 | Most of the members attended the industrial park visit | N/A |
| 27/06/24 | The rest of the members attended the industrial park visit | N/A |
| 28/06/24 | Graduation Day! | N/A |
| 01/07/24 | App development continued | N/A |
| 02/07/24 | App development continued | N/A |
| 03/07/24 | Attended a session on Cybersecurity | N/A |
| 04/07/24 | Members worked on the development of the app | N/A |
| 05/07/24 | App development continued | N/A |
| 08/07/24 | Members finalised on developing the UI without the functionalities | N/A |
| 09/07/24 | We had a stand up meeting to discuss the progress of development as well as the blockers that the members are experiencing | One of the members had their computer crashing and so she had to start all over again |
| 10/07/24 | App development continued whereby the members were now focusing on adding functionality to the app  We attended an online webinar in the afternoon | N/A |
| 11/07/24 | We worked on adding firebase to the application to help us with the authentication.  We had a change of idea on the design of the authentication pages | We had some errors occuring in the application after adding firebase |
| 12/07/24 | Maandamano #Justice for Danzel | N/A |
| 15/07/24 | Mobile application development continued focusing on the implementation of the functionalities | N/A |
| 12/07/24 | Made updates on the firebase\_core and google-services dependencies | N/A |
| 15/07/24 | Updated dependencies and added authentication repository. | N/A |
| 16/07/24 | App icon edited. | N/A |
| 17/07/24 | The registration screens such as the animal registration page, farm fencing created and functionality implemented. | N/A |
| 18/07/24 | Completed the functionality of the registration pages. | N/A |
| 19/07/24 | The user profile screens such as user profile , edit profile screen, account details screen created. | N/A |
| 22/07/24 | Functionality of the user profile screens implemented.  Styled the onboarding pages. | N/A |
| 23/07/24 | Added network connectivity check before signup  Updated dependencies to include connectivity\_plus package. | Faced warnings in the success screens and authentication repositories. |
| 24/07/24 | Updated the messaging functionality  Fixed warnings in the success screens and authentication repositories. | N/A |
| 25/07/24 | Added permissions for phone location. | N/A |
| 26/07/24 | Complete creation of the homepage.  Added map feature and its functionality.  Updated the login screen and authentication repositories.  Increased weekly weather icon.Updated geocoding and geolocation dependencies. | N/A |
| 29/07/24 | Implemented the current weather logic in the app.  Added forecast weather logic to the app. | N/A |