A REPORT ABOUT THE BUILDINGS IN MAKERERE UNIVERSITY.

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Contents

1 EXECUTIVE SUMMARY

The research report is about some of the existing buildings forming the great infrastructure of Makerere University. Here I was able to find out the positions of the buildings using GPS coordinates, the pictures of the buildings, their names, purpose in the university, maximum number of people the different buildings can accommodate, and number of floors for storied buildings. This would help new people in the university to find different places with ease.

2 INTRODUCTION

Makerere University covers a very wide area and consists of a variety of infrastructure. This makes it hard for new people to the university to get access to the various buildings. Therefore, research has been carried out to get such information so as to solve this problem.

3 METHODOLOGY

I used the method of observation to see the different buildings around Makerere University. I gathered the information using a mobile application, ODK Collect. Here, i was able to take pictures of the different buidings and find their location using GPS coordinates.

4 The description of various buildings.

The different buildings in Makerere University consist of students halls of residence, faculty buildings, library book banks, places of worship like a mosque, administration blocks, and restaurants. These all serve different purposes to the students, teaching and non-teaching staff. The buildings are either constructed with blocks or other materials like wood.

5 Problems faced when collecting data.

- Unforeseen weather changes where the rain was a hindrance to my movement around the different buildings.
- Poor connection within the university which couldnt enable me connect to the server efficiently.
- High security measures on some buildings which would make it illegal to take pictures because it would be considered as a threat.
- Executing machine code is faster than interpreting byte code

- Lack of accuracy when finding the GPS coordinates.

6 Possible solutions to the problems.

- Better means of transportation around campus as kit would make the research work faster.
- Communication towers are being built in Makerere University so as to deal with the problem of poor network.

7 Conclusion

In conclusion, this research will help to solve the problem of searching for the different buildings depending on ones needs in the University.

8 Sample Screenshots of the Phone Application.

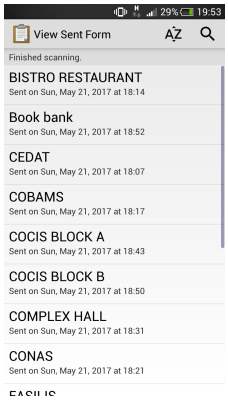

Figure 1: Screenshot 1

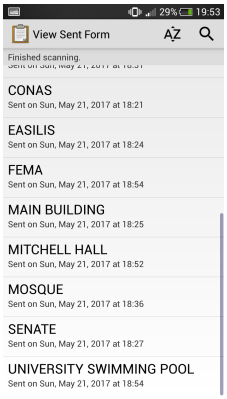

Figure 2: Screenshot 2

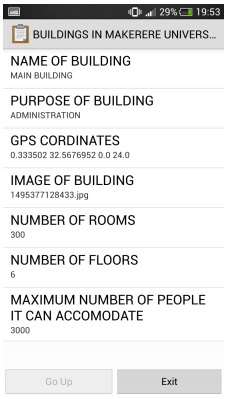

Figure 3: Screenshot 3

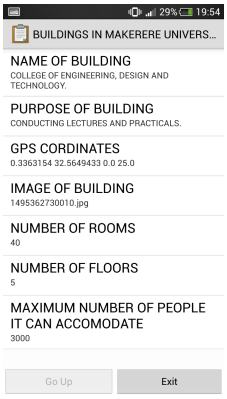

Figure 4: Screenshot 4

NAME	PURPOSE	Latitude	Longitude	LOCATION:Accuracy	rooms	NUMBER	PEOPLE
COLLEGE OF ENGINEERING, DESIGN AND TECHNOLOGY.	CONDUCTING LECTURES AND PRACTICALS.	. 0.3363154	32.5649433	25	40	5	3000
BISTRO RESTAURANT	HAVING MEALS	0.3350754	32.5662028	1351	2	1	100
COBAMS	EDUCATION	0.335625	32.5660033	28	100	4	2000
COLLEGE OF NATURAL SCIENCES	EDUCATION	0.3350816	32.5667316	35.013	50	3	2000
EASILIS	EDUCATION	0.3347886	32.5669703	24	10	3	2000
MAIN BUILDING	ADMINISTRATION	0.333502	32.5676952	24	300	6	3000
SENATE	OFFICE OF THE REGISTRAR	0.3323331	32.5698607	34	250	6	5000
COMPLEX HALL	ACCOMODATE GIRLS	0.3295321	32.5700979	27	300	3	1000
MOSQUE	PRAYERS	0.3314255	32.5715196	40.5	2	1	200
COLLEGE OF COMPUTING AND INFORMATION TECHNOLOGY. BLOCK A	EDUCATION AND INNOVATIVENESS	0.3314614	32.5704582	41	35	6	2000
COLLEGE OF COMPUTING AND INFORMATION TECHNOLOGY BLOCK B	EDUCATION AND INNOVATIVENESS	0.3317079	32.5703998	44.123	35	6	5000
UNIVERSITY BOOKSHOP	SELLING AND LENDING BOOKS	0.3314613	32.5705661	25	1	1	20
MITCHELL HALL	ACCOMODATE MALE STUDENTS	0.3314617	32.5705662	25	800	4	1500
Swimming pool	LEISURE	0.3349042	32.5688945	36	4	1	500
SCHOOL OF ECONOMICS	EDUCATION	0.3349868	32.5686567	25.29	150	6	2000

Figure 5: Capture