asm su19 Trees tree inventory

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# Overview

## Project Background and Description

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|  | The project arise as when we, The Authors saw the Data “Tree inventory” published by the Nature Museum Teens on <https://five.epicollect.net/project/asm-su19-trees> . We wanted to process this data and create a web app in order to make this data available to different communities to understand more about the Trees. The web app will provide the Geo-graphic location of the trees, The Images of the Trees, Name and Condition of the Trees. |

## Project Scope

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|  | The scope of this Project is to make sure That the Web app will be useful to and used by the different communities such as like   * Farmers to compare their plants with the respective plant on the web app to verify their condition * Agriculture Research Individuals to get the data of the different plants from different locations without the need of travel * Educational Institutions to Teach Students about the Different types of plants exist and how they look like. Etc.. |

## Use Cases

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| --- | --- |
|  | * UC 1: To be able to Register (If the User is New) * UC 2: To be able to Login (if user registered) * UC 3: User Logout Process * UC 4: Post Data * UC 5: View Data * UC 6: Remove Data * UC 7: Modify/Leave Comments * UC 8: Download Data |

***In general for the realization of the system we have identified 4 main actor, namely surveyors which are the one will be on site collecting the data with Epi-collect, the supervisor which will be the person to control the team of specific number of surveyor on site, the project coordinator to conduct the all activities on the project and the system administrator responsible to manage the system in general for technical matters.***

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***Use Case Diagram of the system***

***Activities Diagrams (Flow Diagrams of all Use Case)***

* Use case 1**: To able to Register. The flow Chart explains the Registration Process**

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* Use Case 2**: To be Able to Login. The Flow chart Explains the Registered User Login Processes**

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* Use Case 3**: User Logout Process. The Flow chart Explains the User Logout Flow**

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* Use Case 4**: Post Data, The Post Data Process is Explained in the Below Flow chart**

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* Use Case 5**: View Data. The View Data Flow Chart explains the Flow of Vie data Process when the user clicks the View Data Button.**

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* Use case 6**: Remove Data. The following Flow chart explains the Process of Removing Data Uploaded by the User.**

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* Use Case 7**: Modify/Leave Comments. The Flow Chart Explains the Process of User viewing the Comments and Post Comments.**

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* Use Case 8**: Download Data. The Following Flow chart explains the Process of How the Download Data Works.**

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Web Application Architecture

**The application will use client server architecture, in the 3 layer model, where we have the first layer the client middle one the web server and application logic will be carried out using, python, java script and PostgreSQL as the database.**

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## Affected Parties

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|  | As far is we concerned There are no Third Parties/ Companies that will be affected by our Project. But in fact, it will help the data Providing platforms to be able to represent their data in an interesting way. For example, “ASM SU19 Trees” Data that we have been using |

## Specific Exclusions from Scope

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| --- | --- |
|  | In this project only web application is made but not any software is developed to download and install |

## References

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|  | * *The data was Provided by the ASM SU19 Trees* [*https://five.epicollect.net/project/asm-su19-trees*](https://five.epicollect.net/project/asm-su19-trees) * *Python* [*https://www.python.org/downloads/*](https://www.python.org/downloads/) * *Professor Elisabetta Di Nitto for providing us with necessary information and Materials* * *Assistant Professor Daniele Oxoli for Helping us in the stages of Data Transformation and Processing.* |