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| Project Name | | Confidentiality Level |
| Weather-Prediction-Application | | For Recipients’ Reference Only |
| Project ID | Version | Document Code |
| 1 |  |  |

Xx Project Start Report

** **

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Revision Record

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| --- | --- | --- | --- | --- | --- |
| Date | Revision Version | CR ID /Defect ID | Sec No. | Change Description | Author |
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**Content**

1. Project Proposal 5
2. Team building and Schedule 5
3. Risks Evaluating and Mitigating 6

Keywords: *Words that will reflect main contents of the document.*

Abstract :

List of abbreviations : *Describe abbreviations in this document, full spelling of the abbreviation and Chinese explanation should be provided.*

| Abbreviations | Full spelling | Chinese explanation |
| --- | --- | --- |
| ARIMA | Autoregressive Integrated Moving Average |  |
| ARMA | Autoregressive Moving Average |  |
| ML | Machine Learning |  |
|  |  |  |

1. Project Proposal

**1. Project ID:**

**00001**

**2. Project Introduction:**

This is a group project to come up and create a weather prediction application/website We are using Meteorogical data from 1997 to 2019,cleaning it through Spark ,Using ARIMA to model and plot the graph by use of matplotlib. Data transfer and processing is through python by whish we parse it to json and can be transferred to flask where we host and create our backend of the website. We have incorporated microservices as well

**3. Project objective:**

To come up with a Weather prediction system .

**4. System boundary:**

**M**achine Learning ,

Matplotlib,

Arima Modeling ,

Python -Json Data processing

**5. Workload assessment:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Module** | **Sub-module** | **Workload（person/day）** | **Description** |
|  |  |  |  |
|  |  |  |  |
| Workload in total（person/day） |  | | |

Remarks: Person/day means workload of the number of person & day

1. Team building and Schedule

**1. Project Plan： xxxx-xx-xx——xxxx-xx-xx**

**2. Chief Project Manager：Sam Lindaman Number: 18309004 Name：…**

**3. Project Manager： Number： Name：…**

**4. Project Team Member :**

安多尼 **17309001**

**Kim Taesik 17309002** 金泰植

**Alex. Park 18309002.** 朴会宰

**Nabil Madil 18309008**

**Lee 18309007** 李恩守

**5. Source of Staff：**

1. Risks Evaluating and Mitigating

**1. Technical Risks：**

(1)Spark cluster and Hadoop configuration

(2)Windows ARIMA configuration

**Resolution:**

**\*use python code for data cleaning instead**

**\*Switching from windows to a unix powered OS**

**\***

**2. Management Risks：**

(1)Git dashboard difference as compared to Huawei Cloud

(2)

**Resolution：**

**\***Inviting the instructor to our GitHub project to track and evaluate our proceedings .

\*Daily Submitting of the proceeding in the U+ platform.

**3. Other Risks：**

(1)Group members different locations and time differences.

(2)Language Barrier

**Resolution：**

**\***Having a common group chat and setting a specific time period for communication ,considering all the personal time differences.

\*Submitting and committing to our GitHub project daily proceeding from each of the group members.

\*Translation of documents to English for easier understanding.