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# Document Information

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Contents

[Document Information 1](#_Toc6075759)

[1. Introduction: 1](#_Toc6075760)

[1.1. Purpose: 1](#_Toc6075761)

[1.2. Document Conventions: 1](#_Toc6075762)

[2. Summary of Project: 1](#_Toc6075763)

[2.1. Assumptions: 2](#_Toc6075764)

[2.2. Constraints: 2](#_Toc6075765)

[3. Milestones and Time Management: 2](#_Toc6075766)

[3.1. Work Breakdown Structure: 2](#_Toc6075767)

[3.2. Milestones: 2](#_Toc6075768)

# Introduction:

## Purpose:

The primary purpose of this document is to elaborate rules and principles which are to be followed by developers in order to avoid any conflicts during research processes. This document provides detailed information of intended work of development team including their tasks and deadlines.

Intended audience for this document is: Research team, Supervisor and consulting Faculty Members of Capstone Spring 2019.

## Document Conventions:

|  |  |
| --- | --- |
| Assum | Assumptions |
| Cn | Constraints |
| AR | Artifact |

# Summary of Project:

This project is Research and Development Project in a sense that the team has to develop an algorithm which is inspired by war tactics exhibited by military forces. Development of an algorithm is the main objective of team and to show the experimental results of research, team would develop a small application that would show the performance of their developed algorithm on some Benchmarks functions and against some well-known algorithms. This is further elaborated in [**Project Plan Document 1.0.**](Our%20Proposal%20(1).doc)

## Assumptions:

**Assum-01:** As this is a research based project therefore, it is highly subjective and it would make problems in following the tight schedule of project deadlines.

**Assum-02:** The outcomes of this research projects are highly uncertain, it may or may not be better than already existing algorithms.

## Constraints:

**Cn-01:** Time is primary constraint for this project. (4 months)

# Milestones and Time Management:

## Work Breakdown Structure:

Work Breakdown Structure is explained in [**WBS document.**](WBS.mpp)

## Milestones:

This project shall output following artifacts:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Artifact ID** | **Artifact Name** | **Description** | **Responsibilities** | **Deadline** |
| AR-01 | Project Proposal Document | This artifact would include brief introduction to problem statement and proposed solution | Faiza Shanawar, Mohsin Qamar | 27-03-19 |
| AR-02 | Literature Review | This artifact would include preliminary literature review of problem domain, studied algorithms and their inspirations | Usama Imran | 07-05-19 |
| AR-03 | Detailed Literature Review | This artifact would include detailed Literature Review of Selected domain. It is revised version of **AR-03** | Usama Imran |  |
| AR-04 | Formulation Of Proposed Methodology | This artifact would include the proposed methodology and its mathematical formulation.  Note: this document could have several versions, this would be determined by experimental results | Mohsin Qamar, Haider Ali | 27-07-19 |
| AR-05 | Experiment Results | This artifact would include experiments like: benchmark functions, their graphs and tables | Usama Imran,  Mohsin Qamar | 17-06-19 |
| AR-06 | Complete Research Paper | This document would include complete research work. This document would be final version of following artifacts:  AR-03, AR-05, AR-06, AR-09 | Usama Imran, Mohsin Qamar, Faiza Shanawar, Haider Ali | 15-07-19 |