**Problem statement**

* Create a program to display following graphs
  + <details of the graphs>
* UI will be driven by data saved in DB
* End solutions should be deployed in AWS cloud
* Coupling among layers should be minimal
* Solution should be scalable to increased load
* Preferred
  + Cloud based logging mechanism
  + Cloud based monitoring mechanism with alerts
  + CI/CD environment integration

**Deliverables**

1. Design document. DD should contain
   1. Detailed design of the application with block diagram
   2. Technical stack of the application
   3. Effort estimates with a project plan
2. Executable application deployed in AWS environment and accessible to public
3. Presentation of the solution with design justifications and improvement plans

**Point distribution**

|  |  |
| --- | --- |
| Completed TDD | 150 |
| Executable application | 200 |
| Deployment on AWS cloud | 200 |
| Preferred features   * Application logging/ monitoring mechanism with alerts * CI/CD integration * Implementation of practices like unit testing, server-less | 150 |
| Presentation, Q & A session   * Design justifications * AWS & application knowledge * Improvement plans | 200 |
| On-time/Early bird prizes | 100 |

DD should contain

* Details proposed solution
* Block diagram
* Technical stack
* Effort estimates
* Project Plan

**Velocity Predictability/ Velocity Trends:**

This metrics is calculated based on accepted and committed story points of a sprint. This table used for creating this metric is **storypointmapping**.

Formula: VP =((Completed Story Points – Committed Story Points)/Committed Story Points)\*100

**Accepted/Committed(Done Success Rate)**

This Metric is calculated based on accepted and committed story points of a sprint. This table used for creating this metric is **storypointmapping**

Done Success Rate = (Accepted Story Points/Committed Story Points)\*100

**Scope Change**

This is metric is used for capturing the addition work added for a sprint. This table used for creating this metric is **storypointmapping**

Added work = Accepted Story Points - Committed Story Points

**Priority Details**

This metric is used for getting the priorities of Stories and Bug in a sprint. This table used for creating this metric is **priorityDetails**.