

**PROCESS CONTROLLER**

Shape

Low-Level Design Version Draft v0.2

**Document Control:**

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| **Project Revision History** | | | | | | |
|  |  |  | |  |  |  |
| **Date** | **Version** | **Author** | **Brief Description of Changes** | | | |
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| **Team members** |

|  |  |
| --- | --- |
| **EMPLOYEE ID** | **NAME** |
| 46282445 | Preethu S |
| 46282436 | Buragala Jyothi |
| 46282433 | M Swetha Reddy |
| 46282435 | Soundarya B |
| 46282439 | Usenbi Sheik |

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**Low-Level Design**

**1. Introduction**

Process controller is a system software which takes the input and display the output accordingly, the user can give the program input and can perform multiple operations on the given program and can display various statistics information of that process by giving the process name.

**1.1 Purpose**

The purpose of this document is to describe the low-level design flow of the Process Controller.

**1.2 Document Conventions**

TBD (To be continued).

**1.3 Intended Audience and Reading Suggestions**

The document is primarily intended for team members, which consists of trainees under the Capgemini Training program.

The references are:

1. System Requirements Specification Document

**2. Detailed System Design**

**2.1 Design Descriptions:**

Process controller is a system software which takes the input and display the output accordingly, the user can give the program input and can perform multiple operations on the given program and can display various statistics information of that process by giving the process name.

**2.3 Modules**

**2.3.1 client .c**

**main ()** :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | main | | | |
| **Input** | Parameter Name | NA | Initial value: | NA |
| **Output** | Return value type | int | -  Text Box | - |
| **Description** | The main function will display the user options to the clients. | | | |
| **Pseudo**  **Code** | 1. Display the main menu  2. Wait for user options  3. Based on user input it will move to another | | | |

**2.3.2 main menu ()**:

| **Name** | main menu () | | | |
| --- | --- | --- | --- | --- |
| **Input** | Parameter Name | int | Initial value:NA | - |
| **Output** | Return value type | int |  | - |
| **Description** | This will display the list options in screen | | | |
| **Pseudo**  **Code** | 1. Display the main menu  2. Wait for user options | | | |

**2.3.3 Start Program ():**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | Start Program () | | | |
| **Input** | Parameter Name | NA | Initial value:NA | - |
| **Output** | Return value  type |  | Text Box | - |
| **Description** | The program will start running and display the output of that selected program | | | |
| **Pseudo**  **Code** | 1.Take the information from the server  2. Display the output of that program | | | |

**2.3.4 Stop Program ():**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | Stop Program () | | | |
| **Input** | Parameter Name | NA | Initial value:NA | - |
| **Output** | Return value  type | int | Text Box | - |
| **Description** | The program will stop running and display the output of that selected program | | | |
| **Pseudo**  **Code** | 1.Take the information from the server  2. Display the output | | | |

**2.3.6 ADD Program ():**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | Add Program () | | | |
| **Input** | Parameter Name | NA | Initial value:NA | - |
| **Output** | Return value type | Boolean |  | - |
| **Description** | If the process is added than the process is deleted | | | |
| **Pseudo**  **Code** | 1.Take the information from the server  2. Display the added program | | | |

**2.3.7 Delete Program ():**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | Delete Program () | | | |
| **Input** | Parameter Name | NA | Initial value:NA | - |
| **Output** | Return value type | NA | Text Box | - |
| **Description** | If the process is deleted, then the process is deleted | | | |
| **Pseudo**  **Code** | 1.Take the information from the server  2. Display the deleted program | | | |

**2.3.8 Memory Space ():**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | Memory Space () | | | |
| **Input** | Parameter Name | NA | Initial value:NA | - |
| **Output** | Return value type | int | - | - |
| **Description** | It will take the input and display the memory space | | | |
| **Pseudo**  **Code** | 1.Take the information from the server  2. Display the Memory Space | | | |

**2.3.10 CPU Time ():**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | CPU Time () | | | |
| **Input** | Parameter Name | NA | Initial value:NA | - |
| **Output** | Return value type | int | - | - |
| **Description** |  | | | |
| **Pseudo Code** |  | | | |