**GRADUATION PROJECT PROPOSAL**

**Generator by Reusing Components System (GRCS)**

**PROJECT PROPOSAL**

12/10/2019

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| **PROJECT Description** | A lot of software engineering companies build services for its customers based on their business needs, but sometimes there are multiple customers ask for the same common services (i.e. User Role Management, User tracing, Reporting…) and no need for redeveloping this features from scratch and here is our project idea, where the system can produce other systems with using predeveloped services and features and components for saving redevelopment time and manage the services that have been developed, its versions and business description for every version for reusing it in the next projects. | | |
| **OBJECTIVES** | 1. Software services warehouse and management system. 2. Versioning for every service and define every version business. 3. Ability to reuse the services when generate new system. 4. Ability to reuse components from service (not the whole service). 5. Ability to configure system UI design and Layouts and colors… 6. Ability to generate new systems with predeveloped features from company services warehouse and UI meet the configuration. 7. Ability to generate reports for the most reused feature and other reports. | | |
| **Modules** | 1. System Creation Module:  * New system UI and Layouts configuration management. * New system Services and components of services configuration management. * New system Business Rules configuration management.  1. User Roles Management Module:  * Users Management. * Roles Management.  1. Reporting Module:  * Most reused services report. * Most UI and Layout designs used. | | |
| **TIMELINE**  (optional) | | | |
| **PHASE** | | **TASK** | **START & END DATES**  (estimated) |
| 1 | | Elicitation of requirement | * From: 9/10/2019 * To: 20/10/2019 |
| 1 | | Preparation, Planning, Define tasks and estimated timeframe | * From: 23/10/2019 * To: 23/11/2019 |
| 1 | | Analysis and validate the requirement and Use Case Diagram | * From: 25/11/2019 * To: 25/12/2019 |
| 1 | | Architecture and Detailed Design | * From: 30/12/2019 * To: 15/1/2019 |
| 1 | | Implementation (need details later) | * From: 15/2/2019 * To: 15/5/2019 |
| 1 | | WB Testing (Unit & Integration & System test) and BB Testing (Smoke & Load & Acceptance & View test) | * From: 15/2/2019 * To: 20/6/2019 |