AppGene Requirement

# Introduction

The document is intended to describe the requirement of the product.

# Domain

First, requirement is not in the domain of the product. We assume that the requirement of the user project is ready.

This product is focus on design, development, testing and deployment phrases.

# Objective

Goals of this product:

* Generate codes base on design
* Provide a high ratio of generated code/ total code
* Reduce the efforts in development
* Simplify design\coding\deployment

# Business Artifacts

Here just list artifacts related to this project.

## Input: Design

* Data Model
* Architect Design
  + Solution
  + Applications
  + Modules
  + Layers
    - Module related
  + Core
  + Common
    - Module related
* Logical Design
  + UI Unit
    - Category/Sub-Category
    - Module/Sub-Module/Feature/Function
    - Data Source
    - UI Elements
    - Commands
  + Login
  + Home Page
  + Navigation (menu/link/breadcrumb)
* UI Design
  + UI Design Standard
  + Concreted UI Unit layout
* Non-function & common Design
  + Authorization\Authentication
  + Accessibility
  + Exception
  + Logging
  + Instrument
  + Globalization
  + Localization
  + Report
  + Print
  + Export
  + Import
  + License
  + Help
  + About
  + Splash Screen
  + Version update
  + Transaction

## Input: Coding

* Business Logical
* UI Logical
* Database Logical
* Test Logical

## Output

* Solution source code

# Terms

* Solution

We consider all source code of the generated system in a structure: Solution \ Component \ Component Item.

Solution is a root or a start point which includes components of the generate solution.

* Component

A component is a package or a project in a solution which includes source code.

* Component Item

A component item is a file in a component; it would be a code, resources, or image file, etc.

* Application

An application is an entry component in a solution; it would be a console application, GUI application, a web site, a web services site, SDK components, etc.

* Module

A module is a set of components, which represents a sub package in a solution.

Module information is from design.

* UI Unit

A UI Unit is a user interface form or page.

* UI Command

A UI command is a function in a UI unit.