logo

WideBot Internship task release notes

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**M E T A**

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| Title: | WideBot Internship task release notes |
| Revision: | 1.1 |
| Date: | 5/8/2020 |

**Resources:**

**Task Assignment**

*https://drive.google.com/file/d/1BINgfwESr9naRQTPZYr4SIidYkNJEdvg/view*

**Task** **repository**

*https://github.com/AhmedShabaanHelwa/Widebot-Task*

**Open Defects:**

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| Title | State | Project | Phase |
| An unhandled exception | An unhandled exception occurred while processing the request.  InvalidOperationException: Multiple constructors accepting all given argument types have been found in type 'Web.Controllers.UsersController'. There should only be one applicable constructor. | Web - UsersControllers | Mockup 2 |

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| **Task Analysis** |  |

Implementation of an API that provide data of users in Facebook messenger response format to WideBot server.

R/W

Http request

Http response

API Client

(WideBot)

Model

To FB format))

SQL Server DB

Data Access

(DB Context)

Repository

Controller

Startup

Program

**Solution Architecture**

**SOLID** principals were followed as much as possible, one of them is **S**ingle-responsibility principle.

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| --- | --- |
| Core Project | Infrastructure Project |
| Web | |

Core project:

* A library that contains the business data model.

Infrastructure project:

* The data access logic. e.g; EF Core, DbContext, Migrations and Storage design patterns.

Web project:

* The main project representing the controllers and APIs logic.

**Task** **Phases**

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| --- | --- |
| Mockup 1 | Constructing the solution.  Developing the business model in Core library.  Developing the data access layer in Infrastructure library by developing the DataContext.  Entity framework operations: Doing the migrations and constructing the database.  Seeding the database by sample API response.  Constructing the generic repository design pattern.  Developing the web project, constructing the needed middlewares and services in the pipeline and Injecting the needed dependencies. |
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| Mockup 2 | Constructing the APIs controllers.  Constructing the Users Repository.  Testing the API response to different requests using Postman. |
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| Mockup 3 | Analyzing the Facebook messenger response format.  Developing conversion-to-FB-format methods.  Testing the API response to different requests using Postman. |
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| Mockup 4 | Integrating with WideBot. |

**Software Specifications (SWS)**

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**Appendix**

**Document History**

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| Version | Date | Changes |
| 1.0 | 4/8/2020 | Initial release |
| 1.0.1 | 5/8/202 | More Formatting |
| 1.1 | 5/8/2020 | Solution Architecture  Task Analysis |