**COMP4920 Senior Design Project II, Spring 2020**

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**XYZAPP: XYZ Application**

**Product Manual**

**Revision 1.0**

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# Revision History

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| --- | --- | --- |
| **Revision** | **Date** | **Explanation** |
| 1.0 | 15.04.2020 | Initial Product Manual |

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# 1. Introduction

The purpose of this product manual is to document the implementation, testing, installation and operation of XYZ Application as a hardware/software product.

XYZ Application is implemented and tested as it is described in XYZ Application-Design Specification Document, Revision x.y, satisfying the requirements in XYZ Application-Requirements Specification Document, Revision x.y.

Implementation, testing and operation details are given in the following sections of this document.

# 2. XYZAPP Hardware Subsystem Implementation

This section will exist if your implementation involves implementation of a hardware subsystem, otherwise it should not exist.

Also note that, this section does not describe the off-the-shelf hardware (like your server computer, desktop computer, laptop computer, tablet, smartphone, etc) your software is ınterfacing, that is your software is expected to executed on. Such off-the-shelf hardware environement is described in the section about the implementation of your software subsystem.

# 3. XYZAPP Software Subsystem Implementation

# 3.1. Source Code and Executable Organization

* Structure and organization of source code, including related source code filenames. Source code main program/main object, any subprogram/object names together with their methods and interface parameters, including related filenames especially if in different files.
* Structure and organization of executables, main executable and DLL if any, including related filenames.
* Properties and structure of configuration files, if any.
* Description of any scripts to install, diagnose, analyze etc, including related filenames.
* Explanation of diversions from DSD, if any.

Additional Notes About Source Code/Executables Delivery:

* **You MUST NOT list your source code in this Product Manual**.
* Your source code MUST include COMMENTS in a professional manner…!
* Source Code and executables are to be delivered as soft-copy only. Your delivery should also include any log file detailing events related to your execution of software.
* Full source code, executables, test files and log files could be zipped/rar’ed as a **single file**, not **as multiple files**, where filename starts with your project code. You must organize all of your implementation files in a reasonable and self-explanatory directory structure.   
  Example: XYZAPP-Code-2020-05-15-Rev-1.0.
* You will upload the zipped/rar’ed single code file into COMP4920 area in sakai.yasar.edu.tr.
* If delivery of your final report in paper form is also desired by your instructor, you also deliver your code file in a CD/DVD, where the CD/DVD is clearly marked by course code (i.e. COMP 4920), semester (i.e. Spring 2020) and your project code (i.e. XYZAPP). Your CD/DVD must be placed into an envelope and the envelope must firmly be attached to your Final Report as its Appendix D.

# 3.2. Software DevelopmentTools

Complete specification (brand name, version, etc., from where (like github)) of software tools, such as

* compilers,
* interpreters,
* integrated development environments/frameworks
* any other specialized software tool
* any specialized software tool you, your team or a third party has developed
* etc

used during your project implementation and testing, that is, your source code production, testing, configuration, etc.

# 3.3. Hardware and System Software Platform

* Computer hardware (processor, memory, harddisk, display, etc)
* Network (Internet connection, bandwidth, etc)
* System software, such as operating system, its version, any special OS services required
* Any other middleware or database or third part software: Brand name, version, etc.

on which your software is implemented and tested and also is expected to operate

# 4. XYZAPP Hardware and Software Subsystem Testing

This section will also contain hardware testing, if your implementation involves implementation of a hardware subsystem. If no hardware subsystem, this section will simply be named “**XYZAPP Software Testing**”.

This section must describe how you have tested the correct operation of your software system. It must include:

* Details of module/object-method test cases
* Details of system integration test cases.
* Details of test case logs.
* Amount of effort (time and other hardware and software resources, etc.) spent for testing

Also, clearly specify,

* which parts/functions of your software have been implemented, tested sufficiently and **operating correctly** according to the most recent RSD and DSD,
* which parts/functions of your software have been implemented, tested sufficiently and **NOT operating correctly** according to the most recent RSD and DSD,
* which parts/functions of your software have been implemented but not tested at all,
* which parts/functions of your software **have not been implemented at all**, perhaps left as future work.

# 5. XYZAPP Installation, Configuration and Operation

This section must describe how one installs, configures and operates your system. It must include:

* All information and instructions regarding the installation and the configuration of the system, including both hardware (if any) and software subsystems. If the system is to be installed and configured by a a person with special skills (such as a sysadmin, database admin, networkk admin, etc., the expected level of expertise (that is, what the admin should know) need also be identified.
* All information and instructions regarding the operation of application, that is the operation of software system functions by an ordinary user. This is in fact the **User Manual**. If a software system has a large number of functions and has complex data, that is a very complex user interface, then such information is given in a separate **User Manual.**
* Snapshots of user interfaces could be provided to help admin/ordinary user operation.
* If your application already supports an extensive online help facility, you may present that help facility in an organized manner in this section.
* All error codes and messages to admins/ordinary users, perhaps with an explanation of the message.

# References

1. Reference to RSD , DSD, etc
2. Reference to organizational design process procedure document(s), or a generic design process procedure document(s)
3. Reference to organizational design product specification document(s), or a generic design product specification document(s)
4. Other references to additional documents, like other internal organizational documents, software project management documents, software design tool documents, etc
5. References to additional bibliographic sources, like professional books, textbooks, handbooks, patents, standards, technical reports, journal/conference papers, etc.