ASSIGNMENT 1
"DETAILED DESIGN DOCUMENT"

AIN-SHAMS UNIVERCITY

FACULTY OF ENGINEERING

CSE426: Software Maintenance and Evolution

Assignment 1 "Detailed Design Document"

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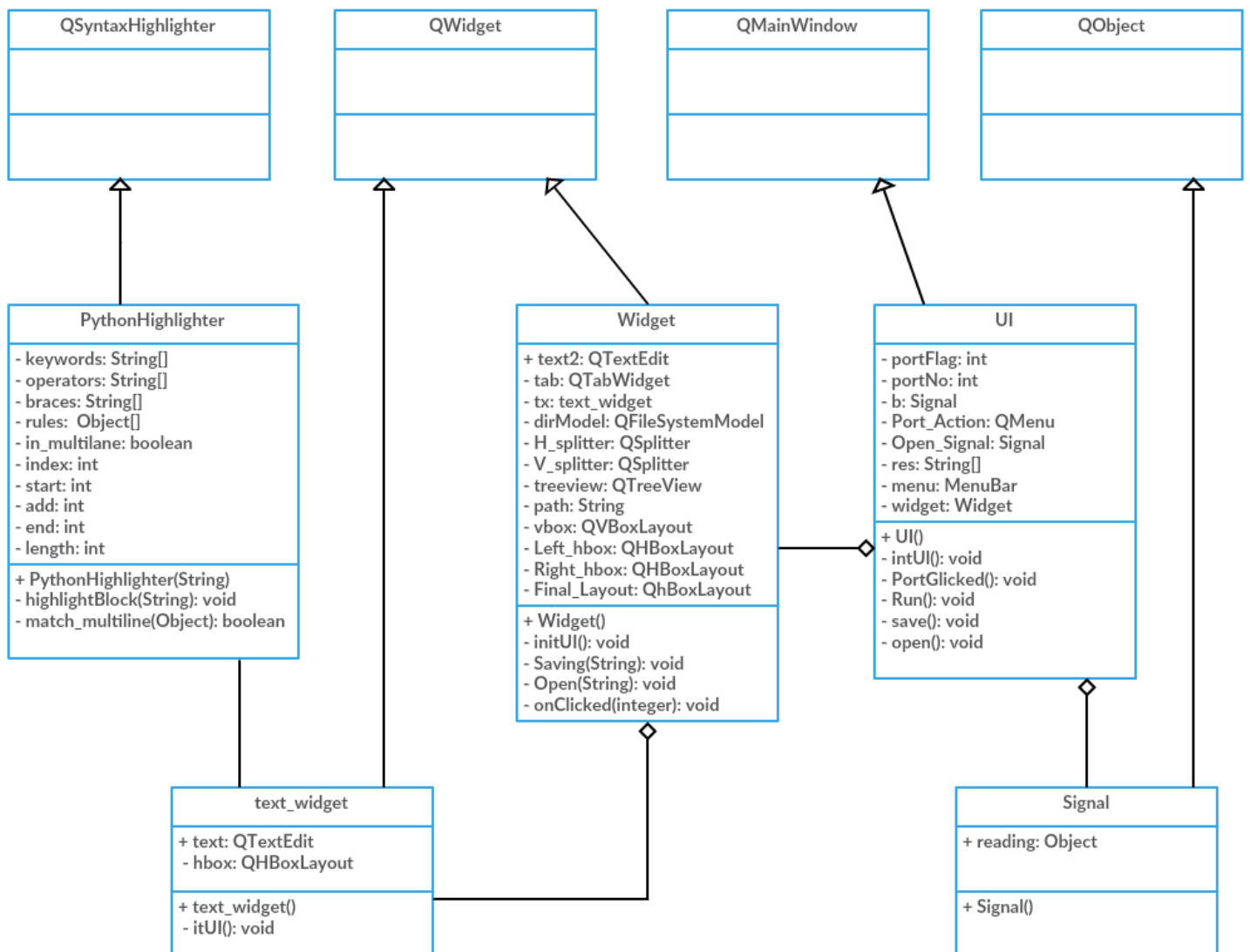
Submitted to:

Prof. Dr. Ayman Bahaa.

A report for Software Maintenance and Evolution Course codded CSE426 with the requirements of Ain Shams University.
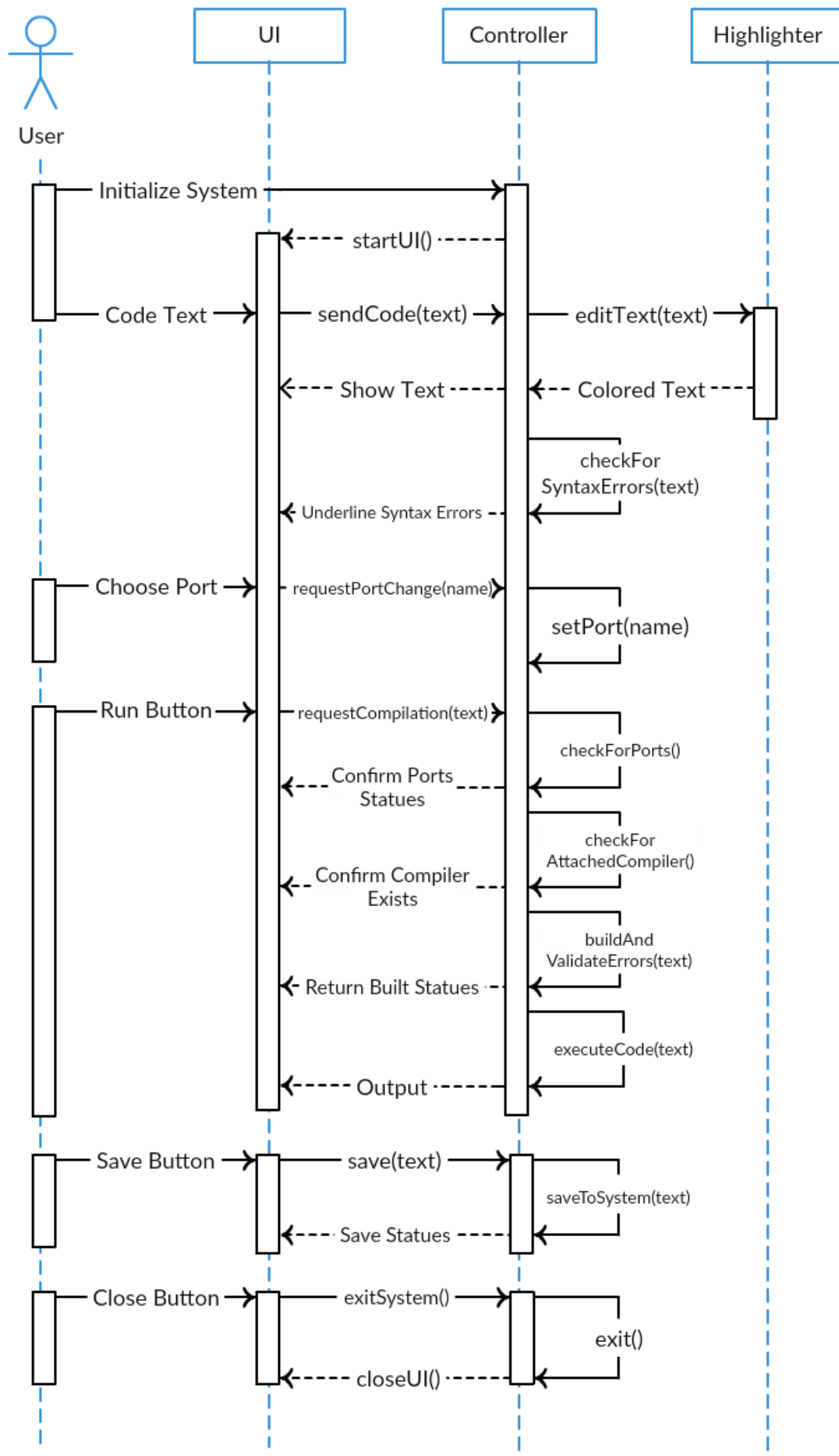
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1. CLASS DIAGRAM

QSyntaxHighlighter

QWidget

QMainWindow

QObject

PythonHighlighter

- keywords: String[]
- operators: String[]
- braces: String[]
- rules: Object[]
- in_multilane: boolean
- index: int
- start: int
- add: int
- end: int
- length: int

+ PythonHighlighter(String)
- highlightBlock(String): void
- match_multiline(Object): boolean

Widget

+ text2: QTextEdit
- tab: QTabWidget
- tx: text_widget
- dirModel: QFileSystemModel
- H_splitter: QSplitter
- V_splitter: QSplitter
- treeview: QTreeView
- path: String
- vbox: QVBoxLayout
- Left_hbox: QHBoxLayout
- Right_hbox: QHBoxLayout
- Final_Layout: QhBoxLayout

+ Widget()
- initUI(): void
- Saving(String): void
- Open(String): void
- onClicked(integer): void

UI

- portFlag: int
- portNo: int
- b: Signal
- Port_Action: QMenu
- Open_Signal: Signal
- res: String[]
- menu: MenuBar
- widget: Widget

+ UI()
- intUI(): void
- PortGlicked(): void
- Run(): void
- save(): void
- open(): void

text_widget

+ text: QTextEdit
 - hbox: QHBoxLayout

+ text_widget()
- itUI(): void

Signal

+ reading: Object

+ Signal()

2. SEQUENCE DIAGRAM

Flow where user start the system, write code, choose the port, run the code, save the code, and finally close the program.

The Main difference here that the user did not write code but opened existed code file.