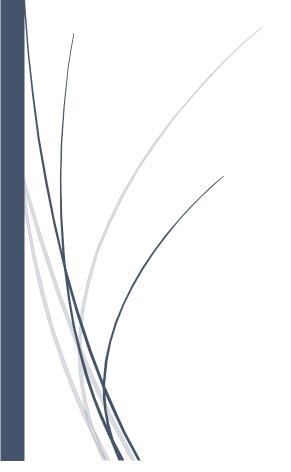
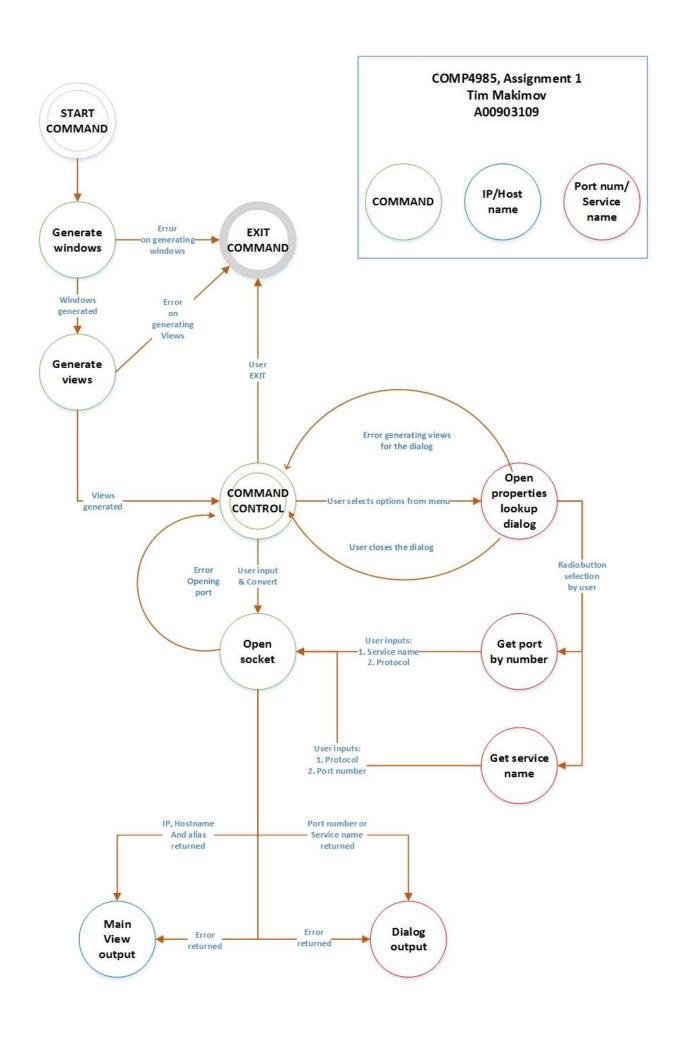
COMP 4985

Assignment 1: Design and pseudocode



Tim Makimov, A00903109



COMP 4985 Assignment Design Pseudo Code

Author: **Tim Makimov**Date: **January 14th, 2016**

START

Routine Name: **start** Preconditions:

Starts the program execution

GENERATE WINDOWS

Routine Name: main

Activity Flow:

- 1. Generate views by calling generateWindows
 - Terminate program if error occurs
 - Otherwise, generate GUI
- 2. Handles messages forwarded by Windows
 - Terminate program if error occurs
 - Otherwise, read messages in a loop, translate and dispatch them

GENERATE VIEWS

Routine Name: generateViews

Activity Flow:

- 1. Registers windows
 - Specifies parameters of the window
 - If the window can't be registered, terminate the program
 - Otherwise, register window
- 2. Create view by calling utility function CreateWindow
- 3. Makes window visible
- 4. Updates window

COMMAND CONTROL

Routine Name: main

Activity Flow:

Starts GUI and enables user to select IP/Hostname lookup or Port Number/Service Name lookup

OPEN PROPRTIES LOOKUP DIALOG

Routine Name: dialogProc

Activity Flow:

1. Opens a new dialog for user's selection between Port Number and Service Name lookup

GET PORT NUMBER

Routine Name: serviceToPort

Activity Flow:

- 1. Disables Port Number entry field will be used as result output
- 2. Enables Service name and Protocol entry fields

GET SERVICE NAME

Routine Name: serviceToPort

Activity Flow:

- 1. Disables Service Name entry field will be used as result output
- 2. Enables Port number and Protocol entry fields

OPEN SOCKET

Preconditions: Valid entries have been provided by the user, else error is returned

Routine Name: hostToIp or serviceToPort (based on selection)

Activity Flow:

- 1. If correct input is provided from main or secondary dialog opens the socket
- 2. Returns IP address or Host name to main dialog
- 3. Returns Port number or Service name to secondary dialog
- 4. Returns errors

MAIN VIFW OUTPUT

Routine Name: hostTolp

Activity Flow:

1. Outputs IP address, host name and alias (if there is one)

2. Outputs error

DIALOG OUTPUT

Routine Name: serviceToPort

Activity Flow:

- 1. Outputs Service name or Port number based on user's selection
- 2. Outputs error