

GSoC 2020 Dev Log

Community Bonding Period (May 4th - June 1)

- Discussed and developed a proof of concept for the customizable toolbar.
- Mentors provided me accounts for wiki and blog.
- Reading and understanding the program flow of the lua ui scripts.
- Set up account info, dev log and blog with the help of mentors.

09 May 2020

- Added basic MainWindow class containing CadMdiChild, Layers, CliCommand, Toolbar and Select tools.

10 May 2020

- Updated the toolbar class for basic initialization, attaching select tools.

11 May 2020

- Shifted GUI related connect calls from lua code to MainWindow class, as well input trigger connections.

12 May 2020

- Replaced luaInterface::qtConnect calls with actual Qt connect calls.
- Moved command list from lua to CliCommand class, along with a few other changes.
- Replaced menu luaConnect calls with temporary API function call.

13 May 2020

- Toolbar manual button creation in lua replaced with temporary API function call.
- Removal and refactoring of redundant lua code.

14 May 2020

- Finished removal and refactoring of id related code since window id is not required anymore.
- Added WindowManager class which will hold a list of window instances and have the new and open functions.

15 May 2020

- Feedback from mentors regarding new entry point for lua scripts.
- Moved UI button connect calls from their UI lua files to each of the tool's lua files, so that each operation can connect the button in it's initialization function.
- Shifted save and saveAs slots from lua to C++.

16 May 2020

- Removed init.lua as lua script execution start point.
- Lua folders are now scanned for files and run, after which init function in each operation is called which adds and connects buttons/registers commands.
- Removed all lua files in ui folder except for operations.lua

17 May 2020

- Began work on automatic generation of operation buttons by using operation properties.
- Added support for command line, menu buttons and toolbar buttons.

18 May 2020

- Added command line list support, toolbar group on the basis of file location.
- Added operations icon property support.
- Shifted remaining global functions from operations.lua to C++.
- Removed lua UI folder completely.

19 May 2020

- Added support for method wise toolbar icons in operation properties.

20 May 2020

- Attempted to make the unit tests run locally on my pc, ran into some issues with gtest,

21 May 2020

- Added WindowManager unit tests, updated old unit tests to work with new changes.
- Added MainWindow unit tests.

22 May 2020

- Added few more MainWindow unit tests.
- Refactored operations related code in luaInterface.
- Created PR.

23 May 2020

- Did not do anything related to the project.

24 May 2020

- Began work on Menu part of the Lua GUI API.
- Added Menu class.

25 May 2020

- Added menu and menuitem class
- Changed QMenu widgets to Menu class in ui file
- Ran into some issues regarding replacing qaction widgets.

26 May 2020

- Solved previous day's issues, replacement of qaction with menuitem works.
- Added callbacks list and few more functions for menu and menuitem class.

27 May 2020

- Added few more Menu API functions.
- Added menu positioning and fixed bug in findMenu function.

28 May 2020

- Added menu item positioning.
- Added more function overloads for Menu API operations.

29 May 2020

- Added support for menu inside menus.

30 May 2020

- Added menu item unit tests.
- Restricted menu items from having same label on the same level.
- Attempted disconnection of lua function slot, ran into some issues.

31 May 2020

- Spent some time debugging it, more weird issues. Decided to put named callbacks on hold and

add unit tests first.

- Added menu unit tests.
- While adding unit tests, realized issue with updation of positions on removing menu.

Coding Period - I (June 1 - June 29)

01 June 2020

- Fixed remove function issues.
- Added more menu unit tests.
- Added named callbacks and ability to delete callbacks.
- CliCommand GUI API functions added.

02 June 2020

- Added CliCommand API unit tests.
- Started Layers GUI API

03 June 2020

- Added Layers GUI API functions
- Added few Layers API unit tests

04 June 2020

- Added ToolbarButton class
- Added ToolbarGroup class

05 June 2020

- Updated and replaced toolbartab functions
- Updated operation icon loading in luainterface
- Added few more toolbar gui functions

06 June 2020

- Updated and changed toolbar class functions.
- Added remaining toolbar gui api functions.

07 June 2020

- Attempted to solve issues with Qt and Visual Studio.

08 June 2020

- Shifted button connect function to toolbargroup class
- LuaQObject bug causing issues.

09 June 2020

- Fixed luaobject bug
- Moved snap button initialization to after script loading to avoid issues.

10 June 2020

- Add toolbar and toolbar tab unit tests.
- Added toolbar group and toolbar button unittests.
- Changed menu item callback connection to use signals and slots.

11 June 2020

- Replaced static and dynamic casts with qobject casts, qt crashes have stopped.
- Named callbacks and remove callback added to toolbar button.
- Renamed some api functions to adhere to coding style.

12 June 2020

- Added back luascript widget.
- Enabled changing of number of group columns for toolbargroup.

13 June 2020

- Fixed luascript bug.
- Added OperationLoader class.
- Callback calling is now done directly instead of using luaConnect.
- Removed LuaQObject class and Qt related code in luainterface.

14 June 2020

- Renamed qtbridge to guibridge.
- Removed qt related code in guibridge.

15 June 2020

- Began work on GUI Dialog.
- Added dialog widget, InputGUI class.
- Added TextGUI, ButtonGUI and ButtonGroupGUI class.

16 June 2020

- Added checkbox, radiobutton, radiogroup, horizontalgroup widgets.
- Added Coordinate GUI widget.

17 June 2020

- Added angle widget.
- Added slider and combobox widget.
- Added number widget and updated widgets to allow retrieving of values.

18 June 2020

- Added finish callback functionality of dialog box retrieving all values in a lua table.
- Added keys for widgets added to dialog box.

19 June 2020

- Allow selection of coordinate points for coordinate widget by clicking on the point.

20 June 2020

- Added color picker widget.
- Added entity picker widget.
- Added few more input gui unit tests.

21 June 2020

- Used visitor design pattern to resolve entity determining issue.
- Added horizontal group unit test.

22 June 2020

- Fixed menu positioning bug and entity picker bug.
- Created PR
- Fixed issues on compiling through gnu compiler that were not showing up in msvc.

23 June 2020

- Added layer unit tests as they were less according to the coverage report.
- Began work on customizable toolbar.

24 June 2020

- Worked on GUI for customize toolbar widget.
- Updated the drag and drop functionality.

25 June 2020

- Changed layout and added parent tabs for customize widget.
- Updated the customize widget.

26 June 2020

- Added delete functionality for customize widget.
- Started integrating with librecad.

27 June 2020

- Shifted widget classes from qtcreeator to librecad.

28 June 2020

- Updated customize widget classes for proper initialization.
- Few changes in the drag model.

29 June 2020

- Button loading and proper handling of duplicate icons in the customize widget,
- Remove button added to tabs and groups in the widget.
- Implemented basic re-addition of buttons on finish.

30 June 2020

- Added clone function for toolbar buttons.
- Fixed re addition of buttons.

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