

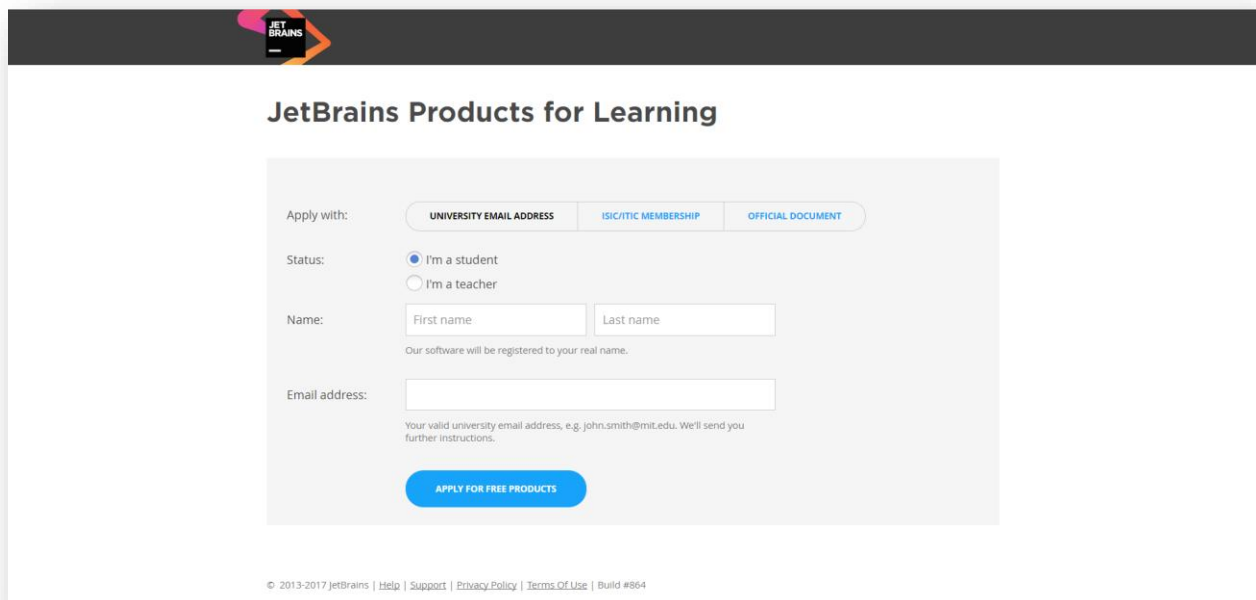
Although presently the site has restricted access until it is complete, in the future a user of eEVA can go to <https://virtualhealthcounseling.com/> to interact with our virtual health agent. The initial AUDIT can be taken without creating an account but further access will necessitate doing so before the user can take further interventions or access their results.

Installation/Maintenance Document

Required software:

- Webstorm
- eEVA (code from repository – access granted by product owner)
- mongoDB

1. Acquire a Webstorm student account by registering at the following web address: <https://www.jetbrains.com/shop/eform/students>. Upon successful registration, you should receive a confirmation link, via the email address you used for registration. Follow the instructions provided by the link to obtain and download WebStorm.

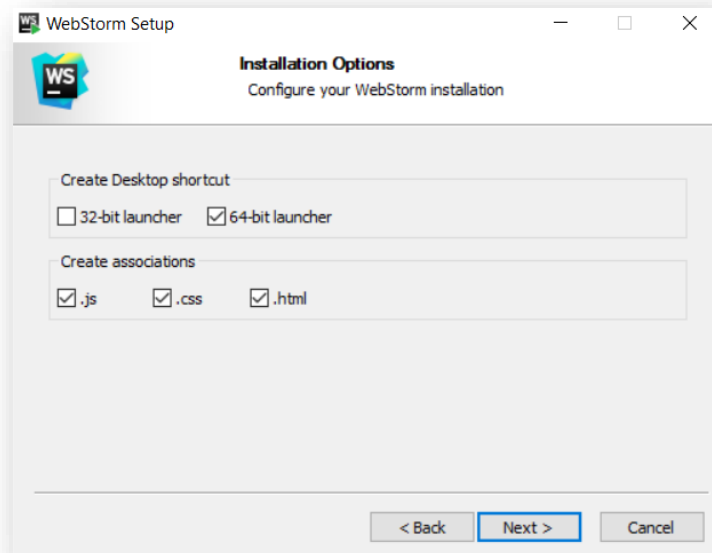


The screenshot shows the 'JetBrains Products for Learning' registration page. At the top is the JetBrains logo. The main heading is 'JetBrains Products for Learning'. Below this is a registration form with the following fields and options:

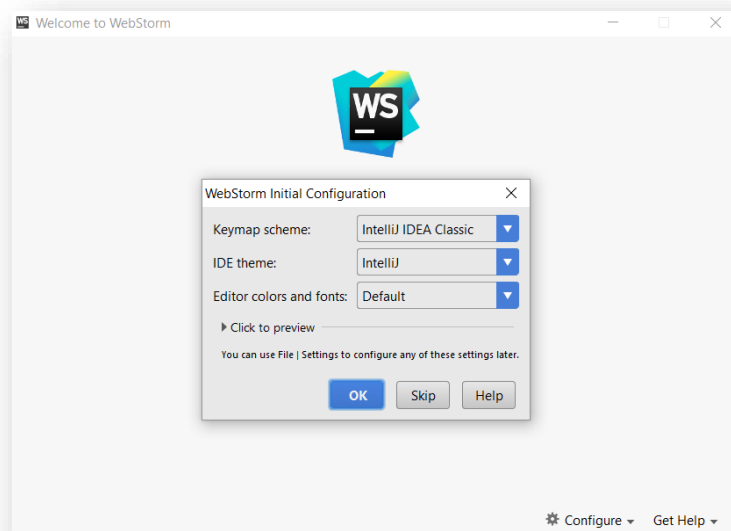
- Apply with:** Three tabs: 'UNIVERSITY EMAIL ADDRESS' (selected), 'ISIC/ITIC MEMBERSHIP', and 'OFFICIAL DOCUMENT'.
- Status:** Two radio buttons: 'I'm a student' (selected) and 'I'm a teacher'.
- Name:** Two text input fields for 'First name' and 'Last name'. Below these fields is a note: 'Our software will be registered to your real name.'
- Email address:** A single text input field. Below it is a note: 'Your valid university email address, e.g. john.smith@mit.edu. We'll send you further instructions.'
- Submit Button:** A blue button labeled 'APPLY FOR FREE PRODUCTS'.

At the bottom of the page, there is a footer with the following text: '© 2013-2017 JetBrains | Help | Support | Privacy Policy | Terms Of Use | Build #864'.

- Next, run installation tool and select the appropriate options for your machine (either 32 or 64bit launcher). Ensure that all the associations are checked (.js, .css, .html).



- Then set up Webstorm using IntelliJ and configure with color preferences and theme based on personal preference as shown below:



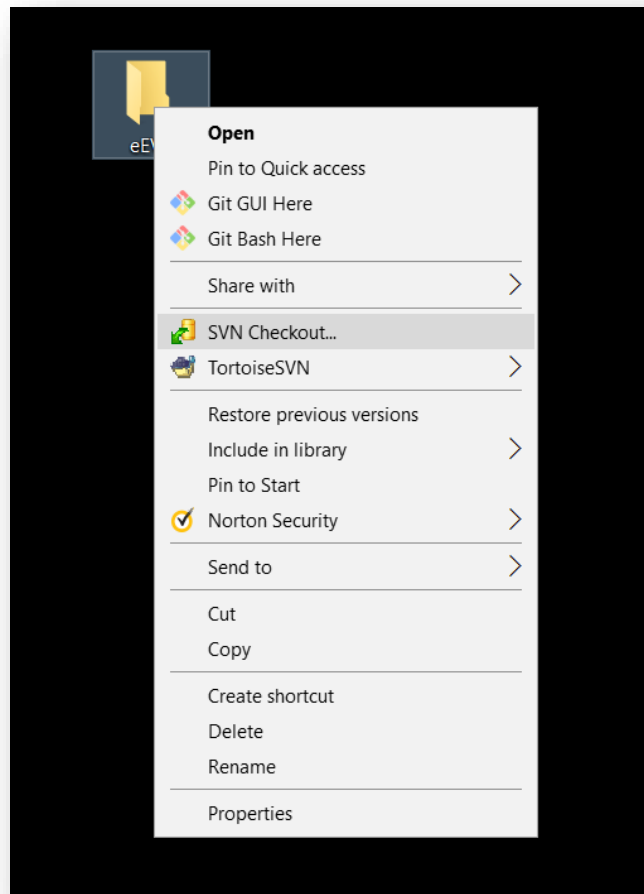
4. The eEVA code is in a repository managed by TortoiseSVN. If you already have SVN Tortoise on your machine please proceed to step 5. Please go TortoiseSVN's website and download the version appropriate for your machine:

<https://tortoisesvn.net/downloads.html>

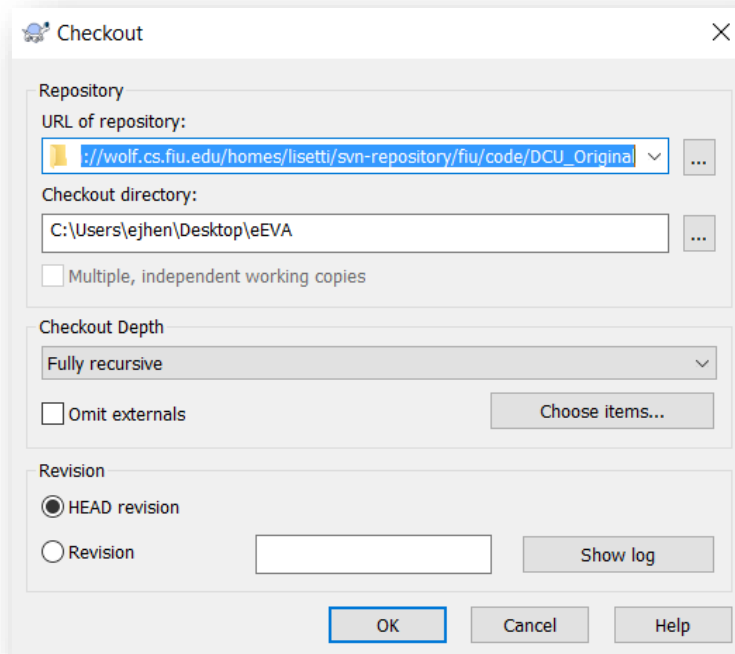
The screenshot shows the TortoiseSVN website with the following layout:

- Header:** "TortoiseSVN the coolest interface to (Sub)version control" with navigation links: Home, About, Downloads, Translations, Support/Docs, Other tools, Support this project.
- Left Sidebar:**
 - Info:** About, About TortoiseSVN, Screenshots, Screenshots of various dialogs, Testimonials, What users say about TortoiseSVN, News Archive, News archive.
 - Support:** FAQ, Frequently asked questions, Help files, The complete documentation, Useful tips, Tips about not well known features, Mailing lists, Where to find the mailing lists, Report bugs, How and where to report a bug, Translations, Help translate, Project status, Overview of releases.
 - Misc:** Issue tracker plugins, Plugins to connect with issue trackers, SVNProtocolHandler, A plugin for IE to browse svn://.
- Main Content Area:**
 - Downloads:** "The current version is 1.9.5". Text: "For detailed info on what's new, read the [changelog](#) and the [release notes](#)."
 - Advertisement:** A banner for "50 FED + 50 STATE TaxAct" with a "START FREE" button.
 - Installation:** "The current version 1.9.5 is linked against the Subversion library 1.9.5." and "Please make sure that you choose the right installer for your PC, otherwise the setup will fail."
 - Buttons:** "for 32-bit OS" with "TortoiseSVN 1.9.5 - 32-bit" button; "for 64-bit OS" with "TortoiseSVN 1.9.5 - 64-bit" button.
 - Instructions:** "To verify the file integrity follow [these instructions](#)."
 - Info Box:** "Context menu in file-open/save dialogs on x64 OS". Text: "On x64 versions of Windows, the TortoiseSVN context menu and overlays won't show for 32-bit applications in their file-open/save dialogs until you install the [2015 C-runtime for x86](#). (select the [vc_redist.x86.exe](#) file for download)."
 - Note:** "Note: this only applies to 32-bit applications on x64 OS. The Windows explorer is not affected by this."
 - Pre-Release Builds:** "Pre-Release Builds" section with a note: "if there is a bug in the latest released version which you really cannot live with."

5. This next step requires that you have access to the repository where eEVA is stored. If you do not already have access please speak to your product owner before proceeding. If you don't have eEVA already, will need to obtain from the product owner's lab repository. First create a directory on the C: drive of your machine. Navigate to the newly created folder and right click to view the additional options. Click on SVN checkout as show below:



6. After you have completed step 5, the checkout popup will appear. Ensure that the checkout directory is where you want the code to be stored. In the “URL of repository” field enter the following: `svn://wolf.cs.fiu.edu/homes/lisetti/svn-repository/fiu/code/DCU_Original`



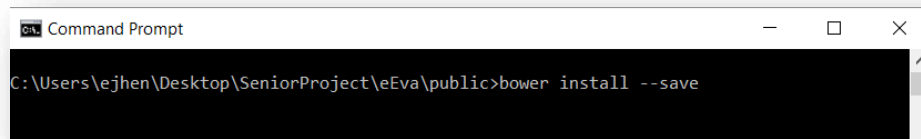
7. Once download has completed, open **eEVA** with Webstorm.
8. Next while in Webstorm, select eEVA, and then View>>Tool Windows>>Project and if node not present must open the terminal (View>>Tool Windows>>Terminal). In terminal, try:

```
Terminal
+ Microsoft Windows [Version 6.1.7601]
+ Copyright (c) 2009 Microsoft Corporation. All rights reserved.
X
U:\Desktop\eEVA>npm install . --save
```

PLEASE NOTE IF THE ABOVE COMMAND IS NOT WORKING CONTINUE WITH STEPS 9 AND 10, AND YOU HAVE RECEIVED THE FOLLOWING ERROR OTHERWISE PROCEED WITH STEP 11:

```
'npm' is not recognized as an internal or external command,  
operable program or batch file.
```

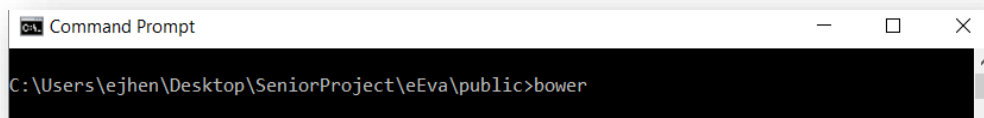
9. Download nodejs and make sure webstorm is closed: <https://nodejs.org/en/download/> and get the .msi installer
10. Relaunch Webstorm and type npm in Terminal to confirm presence
11. Now try step 8 again.
12. Next using the command line prompt on your machine navigate to the directory where you stored eEVA and then navigate to the public folder within eEVA and preform the following command:



```
Command Prompt  
C:\Users\ejhen\Desktop\SeniorProject\eEva\public>bower install --save
```

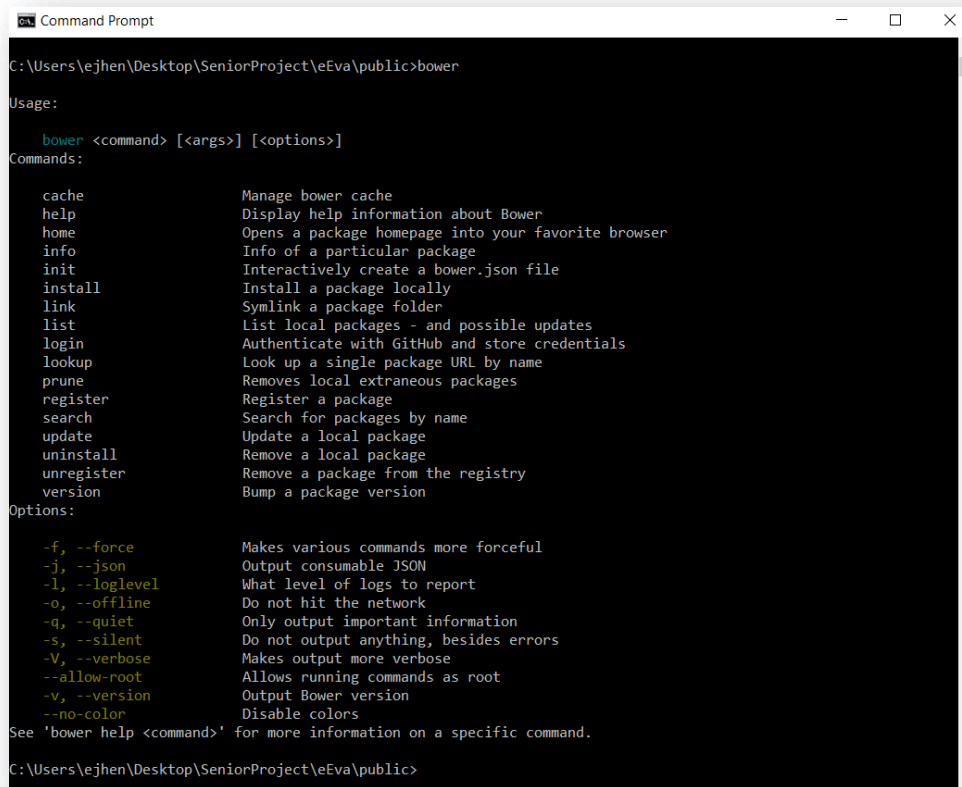
IF YOU RECEIVE AN ERROR PROCEED TO THE NEXT STEP, IF NOT CONTINUE WITH STEP 16.

13. First ensure bower is installed globally on your machine. In the command line prompt enter



```
Command Prompt  
C:\Users\ejhen\Desktop\SeniorProject\eEva\public>bower
```

You should see the bower options, like depicted below:



```
C:\Users\ejhen\Desktop\SeniorProject\eEva\public>bower

Usage:
  bower <command> [<args>] [<options>]

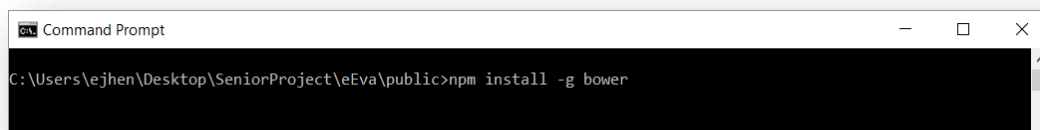
Commands:
  cache      Manage bower cache
  help       Display help information about Bower
  home       Opens a package homepage into your favorite browser
  info       Info of a particular package
  init       Interactively create a bower.json file
  install    Install a package locally
  link       Symlink a package folder
  list       List local packages - and possible updates
  login      Authenticate with GitHub and store credentials
  lookup     Look up a single package URL by name
  prune     Removes local extraneous packages
  register   Register a package
  search     Search for packages by name
  update     Update a local package
  uninstall  Remove a local package
  unregister Remove a package from the registry
  version    Bump a package version

Options:
  -f, --force      Makes various commands more forceful
  -j, --json       Output consumable JSON
  -l, --loglevel   What level of logs to report
  -o, --offline    Do not hit the network
  -q, --quiet      Only output important information
  -s, --silent     Do not output anything, besides errors
  -V, --verbose    Makes output more verbose
  --allow-root     Allows running commands as root
  -v, --version    Output Bower version
  --no-color       Disable colors
  See 'bower help <command>' for more information on a specific command.

C:\Users\ejhen\Desktop\SeniorProject\eEva\public>
```

If you did get the Bower options ensure that you completed step 13 properly, if you received an error proceed to the next step.

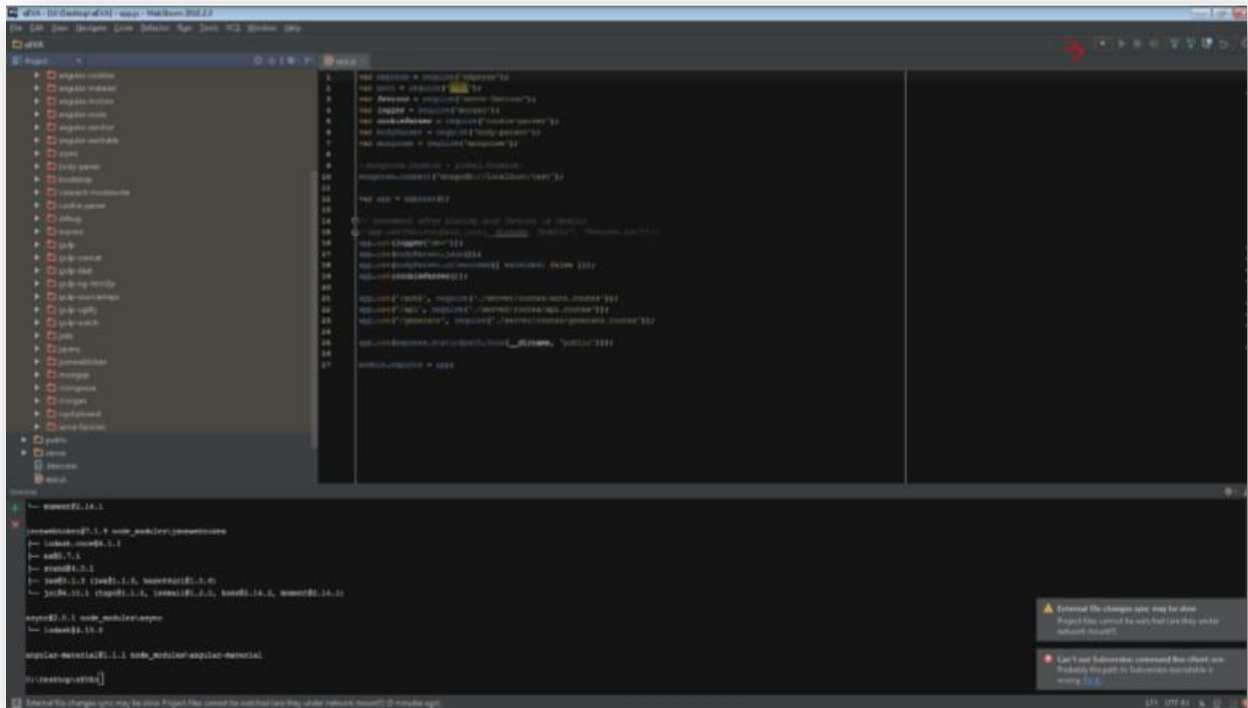
14. You need to install bower globally on your machine, preform the following command in your command line prompt:



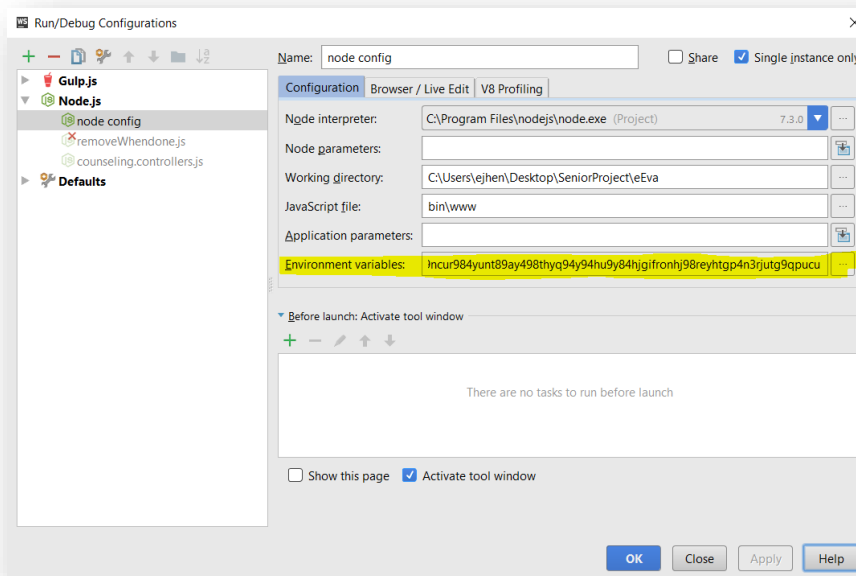
```
C:\Users\ejhen\Desktop\SeniorProject\eEva\public>npm install -g bower
```

15. If you are still experiencing issues please refer to the following resource or contact your product owner: <https://www.npmjs.com/package/bower>

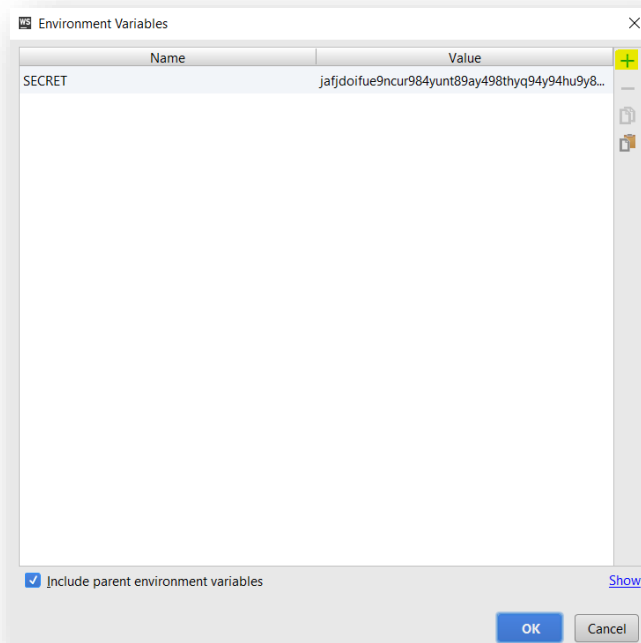
16. Next, go to the dropdown indicated by the red arrow and select “Edit configuration” to first add the Nodejs configuration.



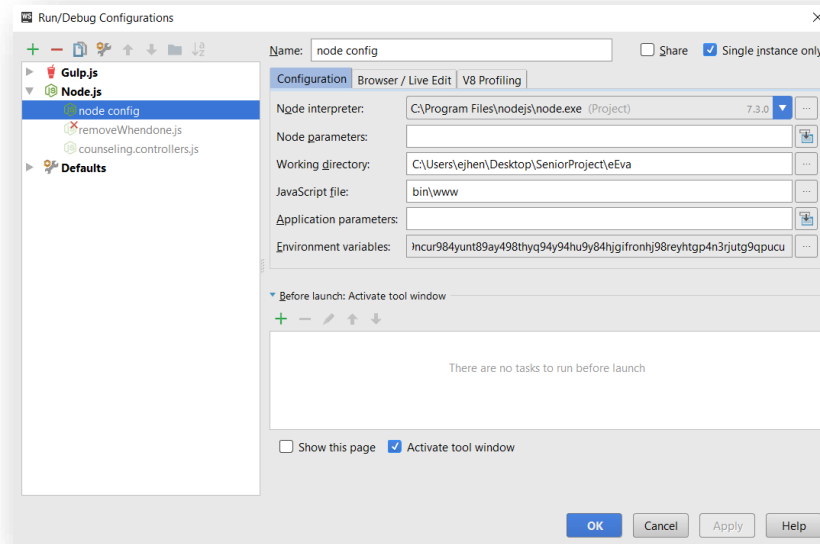
17. Click plus sign, the node.js then in JavaScript file: type bin\www and then must add a new secret environmental variable by clicking ... and then the plus sign as shown below:



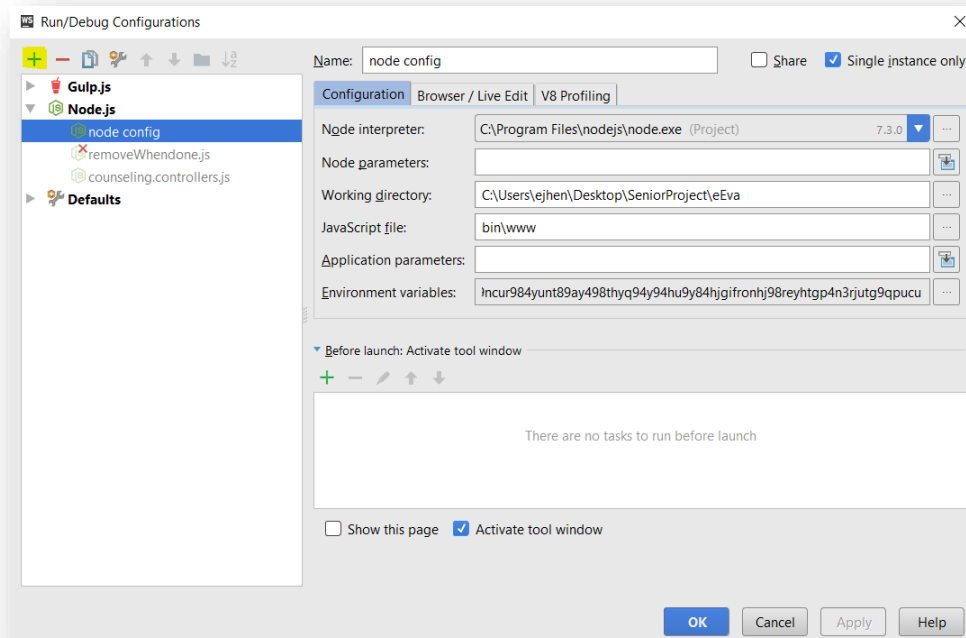
In Name field enter SECRET all in caps, and then in value field, must “spam the keyboard” (entering whatever you want). Then press “OK”:



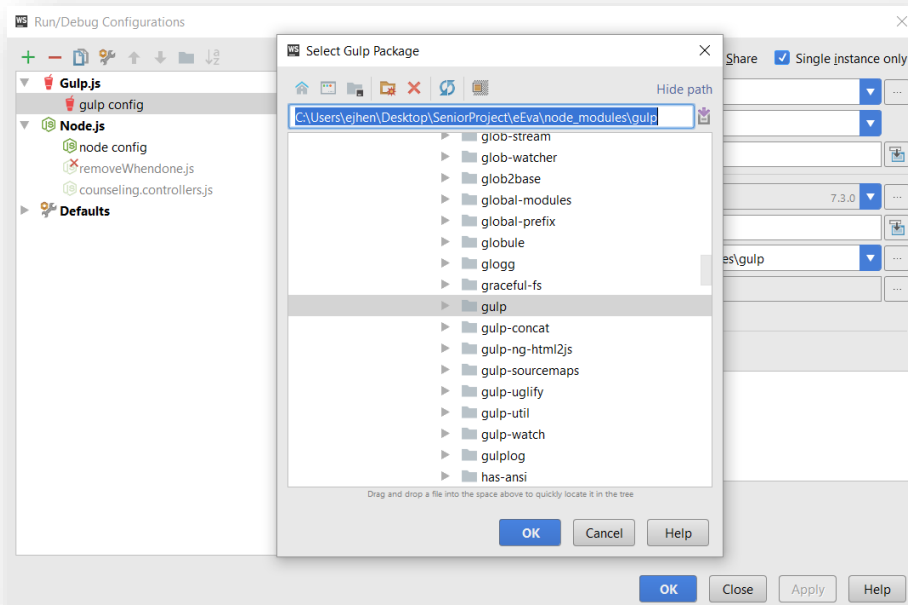
18. Then should look like:



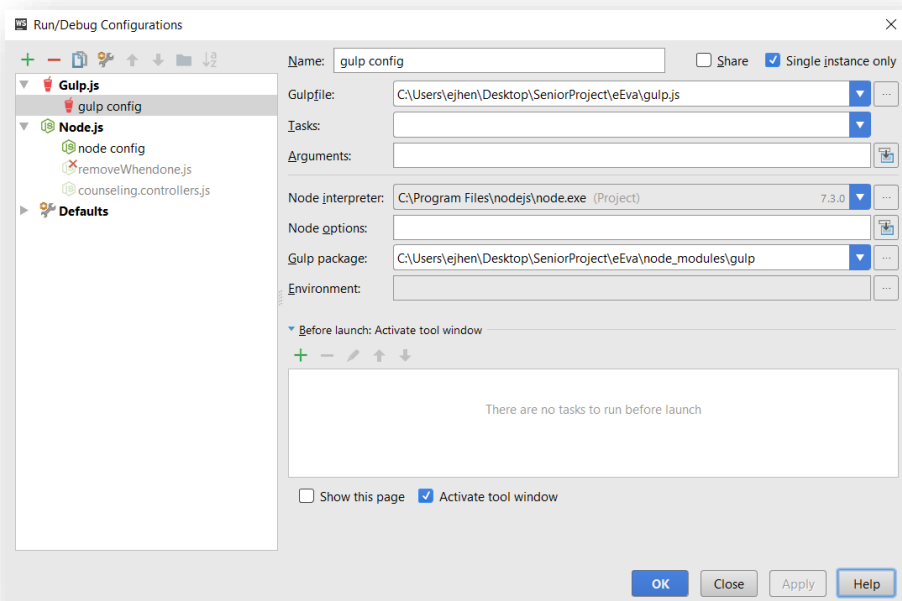
19. Next, we need to set up the Gulp run configuration. First you need to press the green plus sign and select gulp to add it.



20. Next, you must locate the gulp file in the folder, so press ... next to the Gulpfile, then there will be a gulp.js



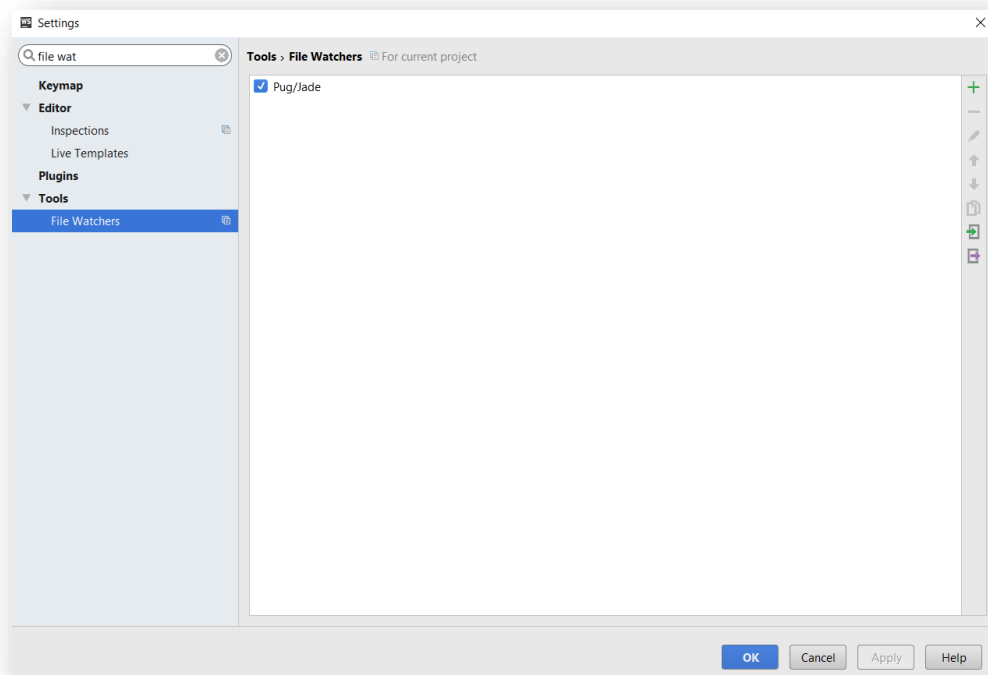
21. Lastly, click OK and your configurations should look similar to the following:



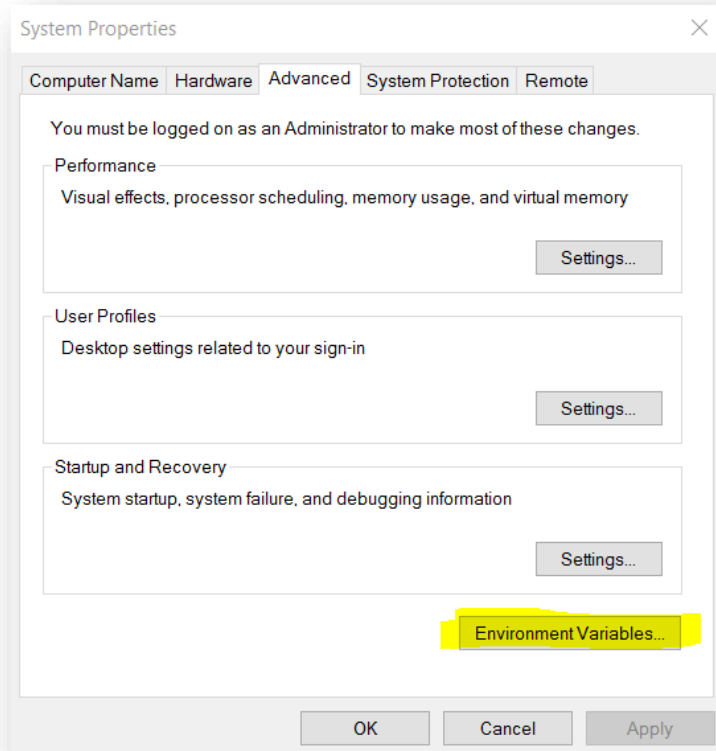
22. Press okay
23. Next go to File>>Settings>>and select “File Watchers.” Click the plus sign to add and choose Pug/Jade then hit apply and okay.
24. Then if issues saving in jade may need to enter the following in the terminal

```
U:\Desktop\EVA>npm install jade -g
npm WARN deprecated jade@1.11.0: Jade has been renamed to pug, please install the latest version of pug instead of jade
npm WARN deprecated transform@2.1.0: Deprecated, use jstransformer
C:\Users\slunn002.AD.002\AppData\Roaming\npm\jade -> C:\Users\slunn002.AD.002\AppData\Roaming\npm\node_modules\jade\bin\jade.js
jade@1.11.0 C:\Users\slunn002.AD.002\AppData\Roaming\npm\node_modules\jade
├─ commander@2.6.0
├─ character-parser@1.2.1
├─ void-elements@2.0.1
├─ jstransformer@0.0.2 (is-promise@2.1.0, promise@6.1.0)
├─ mkdirp@0.5.1 (minimist@0.0.8)
├─ constantinople@3.0.2 (acorn@2.7.0)
├─ with@4.0.3 (acorn@1.2.2, acorn-globals@1.0.9)
└─
```

25. If you are having issues with this step, you can open event log and choose fix it, then make sure Pug/Jade is selected as shown below:



26. Then run the gulp by pressing the play button on the top right
27. Download mongoDB from <https://www.mongodb.com/download-center#community>
28. Create a “data” folder in the C drive, and a “db” folder inside of that. Then on local computer, must add Mongo to the Environmental Variables>>Path>>edit then add a semicolon to end and paste path with executable files (I.E. C:\Program Files\MongoDB\Server\3.2\bin) in the system properties



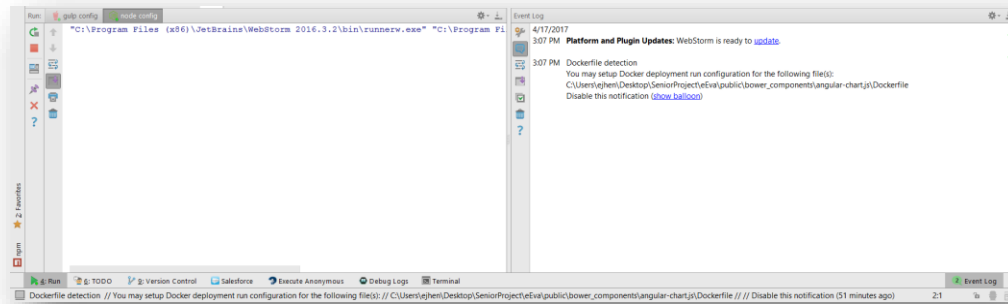
29. **REVISION: USE DOCUMENT (mongodump/dumpcmd.txt) IN PROJECT FOLDER FOR RESTORING THE DATABASE** Next you need to restore the database to the latest instance. Start by opening the command line prompt and enter the following:
mongorestore.exe --drop --d test <then paste directory where stored from eEVA>>mongodump>>select folder with most recent date and then test> See below for example:

```
Command Prompt
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

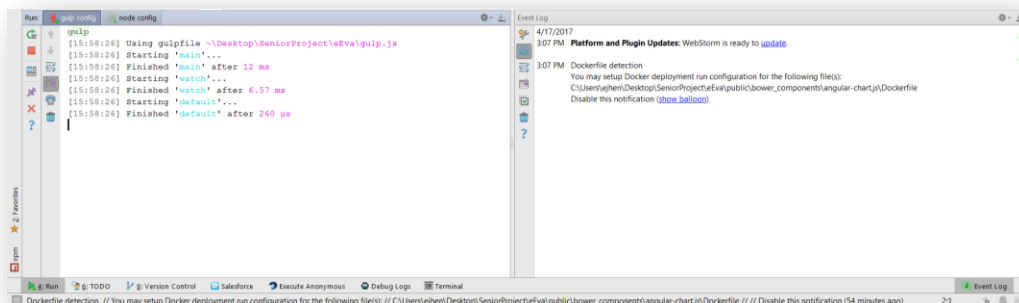
C:\Users\ejhen>mongorestore.exe --drop -d test C:\Users\ejhen\Desktop\SeniorProject\eEva\mongodump\mongodump-2017-04-04_15-35\test
```


30. Then want to run the website to start using, go into Webstorm, and choose Nodejs, then select play button to run. Then do the same for gulp.

Webstorm terminal output for successful run of node config:



Webstorm terminal output for successful run of gulp config:



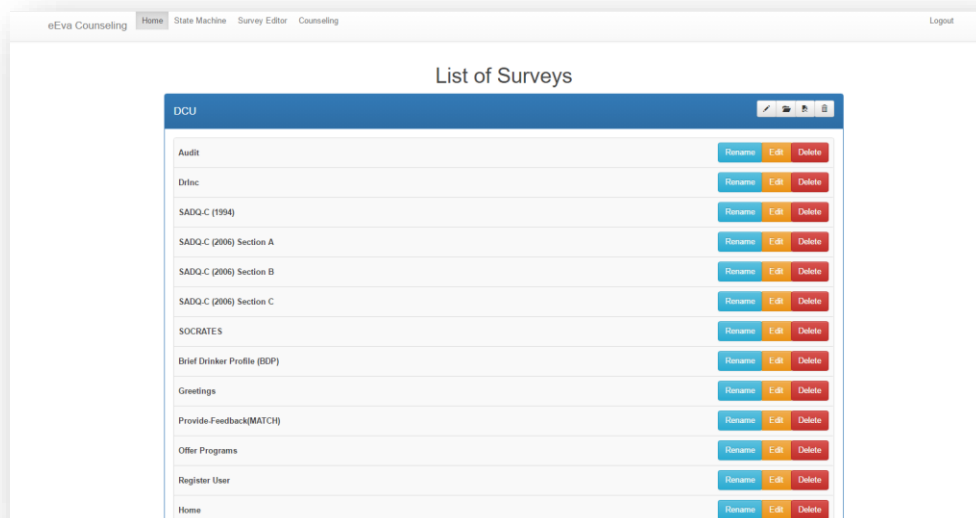
31. Ensure Mongo is running by opening the command line prompt in C drive and run the following command: `$ mongod`

32. Then can open web browser and go to: <http://localhost:3013/#/> NOTE: if it doesn't work, may need to check that port number is correct. Can access value in eEva>>bin>>www file in the var port as shown:

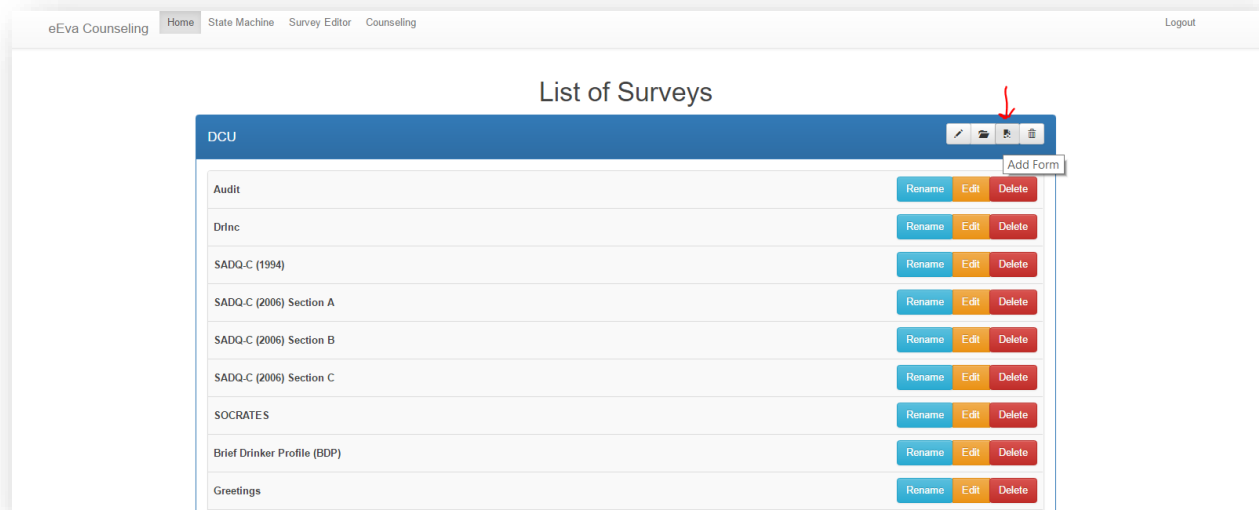
```
11  /**
12   * Get port from environment and store in Express.
13   */
14
15  var port = normalizePort(process.env.PORT || '3010');
16  app.set('port', port);
17
18  /**
19   * Create HTTP server.
20   */
21
```

33. Then log in as administrator and can begin working on state machine and survey editor. For administrator credentials please check with your product owner.

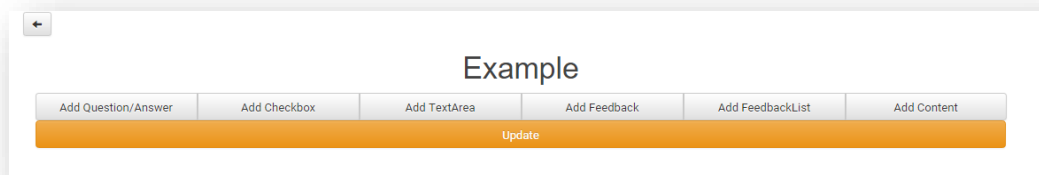
For ongoing maintenance, can edit code in WebStorm. Also, for intervention content, can add and edit new/existing forms in the Survey Editor.



A new form can be added by clicking the button indicated below:



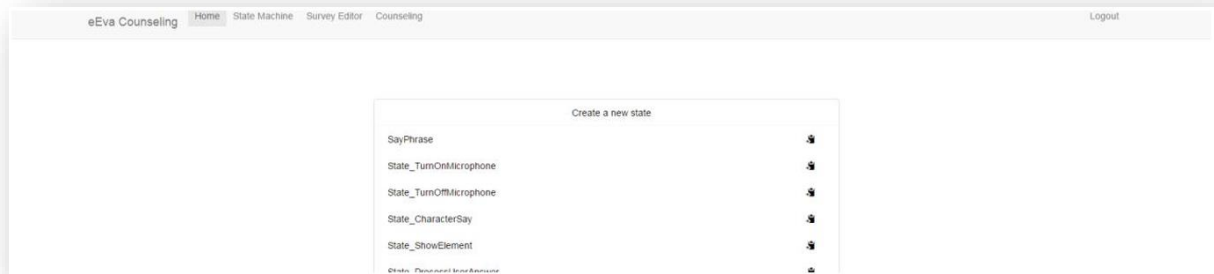
Desired elements can be selected to complete form, and then administrator must select “Update” button:



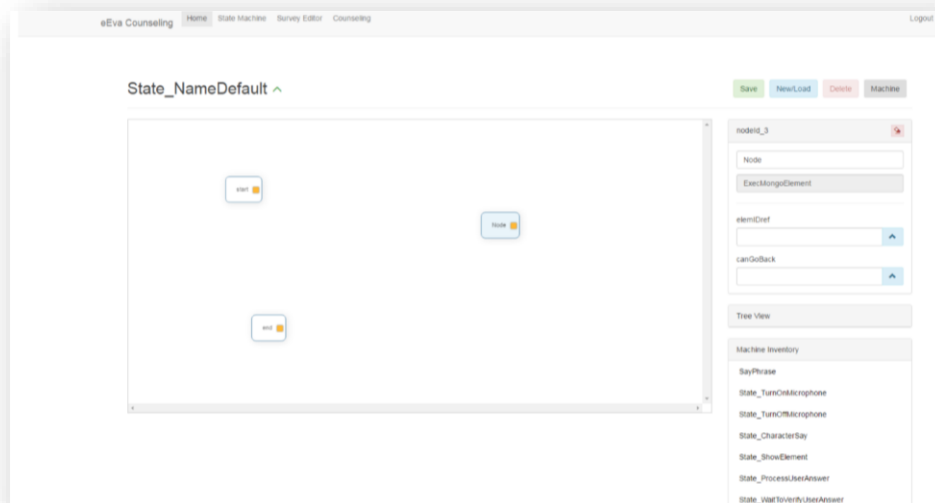
Adding a single answer line into a Question/Answer element creates a button, which can be used to create “Next” buttons. With additional answer choices, the counselor will read the question and display multiple choice bubbles for the user to select from.

The content box is used for html content. Any content that will need to be displayed, gets injected into a webpage so only the page’s “body” should be coded and placed into that box.

Then elements can be placed into the State Machine. First must create a new state if none exists:



To create a new state machine, muse create empty states denoting the start and end, and then execMongoElements can be added to be filled with the content created in the form.

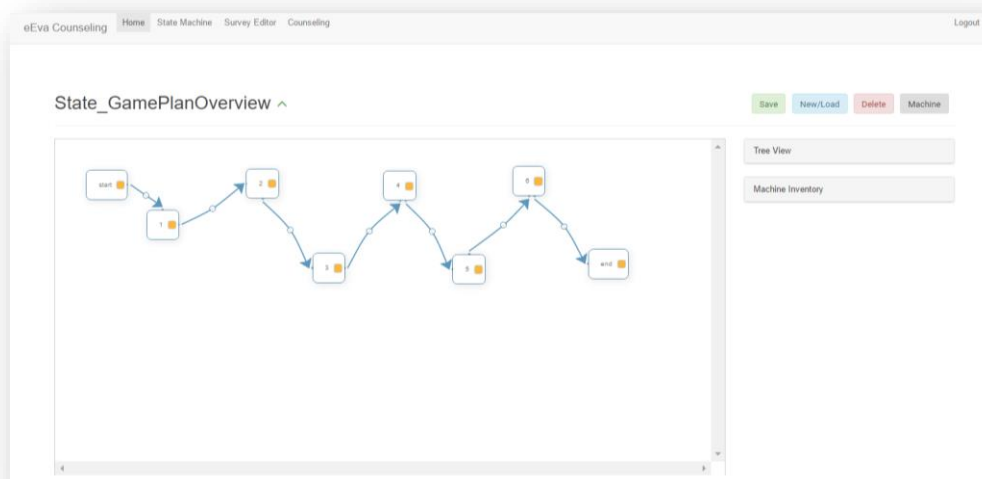


The state Name can be edited by clicking the State_NameDefault, and then once entered, a check mark is selected to save:

The screenshot shows the 'eEva Counseling' application interface. The top navigation bar includes 'Home', 'State Machine', 'Survey Editor', 'Counseling', and a 'Logout' link. The main title is 'State_GamePlanOverview' with a dropdown arrow. To the right are buttons for 'Save' (green), 'New/Load' (blue), 'Delete' (red), and 'Machine' (grey). The left panel contains form fields: 'Name: State_GamePlanOverview' with a plus icon, 'Description:' with a text area, 'Initialization Extra Code:' with a 'Currently empty...' button, and 'Before Extra Code:' with a 'Currently empty...' button. The right panel displays a JSON configuration for the state machine.

```
{
  "_id": "58e2777c23728972844f2916",
  "name": "State_GamePlanOverview",
  "desc": "",
  "primitive": false,
  "before": "",
  "execute": "",
  "init": {
    "params": [],
    "during": "",
    "states": [
      {
        "name": "start",
        "id": "nodeId_1",
        "plumbLeft": "58px",
        "plumbTop": "58px",
        "class": "578556a240b95321046043d",
        "params": []
      }
    ]
  },
  {
    "name": "end",
    "id": "nodeId_2",
    "plumbLeft": "878px",
    "plumbTop": "178px",
    "class": "578556a240b95321046043d",
    "params": []
  }
}
```

Finally, these can be connected to create a complete state by dragging the yellow box of one item to the next, creating an arrow.



The new state must be saved once this is complete. Then the local host page can be loaded.