**X-Force 2021 Product Transition Plan**

*General Information*

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| **Team Name** | Navy 12 |
| **Team Members (First + Last Name)** | Henry Madsen, Francisco Gonzalez |
| **Contact Email for Team** | [hmadsen@xforcefellow.us](mailto:hmadsen@xforcefellow.us), fgonzalez@xforcefellow.us |
| **Problem Sponsor** | James McGee |
| **Problem Sponsor Email** | [james.a.mcgee@navy.mil](mailto:james.a.mcgee@navy.mil) |
| **Product Recipient Name** | James McGee |
| **Product Recipient Email** | [james.a.mcgee@navy.mil](mailto:james.a.mcgee@navy.mil) |
| **Product Recipient Shipping Address** | 439 Tautog Ave  Naval Submarine Base  Groton, CT 06349-5100 |

*Product Information*

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| **Product Type (Report/Paper, Software, Hardware, Other)** | Software |
| **If Other, please explain** |  |
| **Describe your product in 2-3 sentences** | Our product tracks and maintains data otherwise lost by human error and poor bookkeeping. Beyond this, The product displays data using custom charts to better illustrate the current direction of the organization. |

*Transition Plan*

Please explain how you plan to transition your product to your problem sponsor by the conclusion of the fellowship. Include as much detail as you can and follow the Disposition Instructions where appropriate.

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| **FOR ALL FELLOW TEAMS:**   * ***All the code and materials needed will be stored on a shared Git Hub repository that the problem sponsor has access to.*** * The POC that will be receiving the product will be James McGee ([james.a.mcgee@navy.mil](mailto:james.a.mcgee@navy.mil), Mobile: **860-235-7224**) * There will be not shipping of the product since it is a software solution and has no physical parts. * Currently the Navy 12 team is working with our problem sponsor to implement our products on their network however, we feel it is valuable to document the steps we are taking towards that implementation. The following steps are needed to implement our solution(s) and follow our plan for transition:  1. SharePoint site transition (files hosted in “SharePoint Site Templates” folder:    1. If you are using PnP Powershell, modern SharePoint and .xml templates, follow these steps:       1. Download “TrackerProduct.xml” from the Git Hub repository and copy the path to the document.       2. Open powershell       3. Type and enter “Set-Location **\path to the xml document that was just downloaded**”       4. Type and enter “Install-Module -Name “Pnp.PowerShell”       5. Type and enter “Register-PnpmanagementShellAccess” and follow the prompts to log in on screen       6. Type and enter “connect-pnponline **link to SharePoint site that you desire to change**”       7. Type and enter “invoke-pnpsitetemplate -Path **path to the xml document downloaded from git**”       8. Type and enter “disconnect-pnponline”       9. Check to see that the template has been invoked on the site    2. If you are using SharePoint 2013 or 2016 and .wsp templates , follow these steps:       1. Download “TrackerProduct.wsp” from the Git Hub repository       2. Proceed the the home page of your SharePoint site       3. Click the cog wheel in the top right and click on “site settings”       4. Under “Web designer galleries” click “Solutions”       5. On the solutions page in the top left click “Upload Solution” and upload the TrackerProduct.wsp file to the Solutions page       6. Proceed to “Site contents” and click “new subsite”       7. Fill in the Title, Description, URL and choose your language       8. Where it says “Select a template” choose the “Custom” tab and select the template that was just uploaded.       9. Fill out the rest of the form and click “Create”       10. Proceed to “Site contents” and click on your new subsite and verify that the template was applied correctly 2. Microsoft Power Automate Flow transition (files hosted in “PowerAutomate Templates” folde)r:    1. For all SharePoint sites:       1. Go to the shared Git Hub repository and download “add\_20210810144844.zip”, “update\_20210810144825.zip”, and “delete\_20210810144801.zip”. Save these files where you can access them easily.       2. Log in to <https://us.flow.microsoft.com/en-us/>       3. Click on “My Flows”       4. On the header bar click “Import”       5. Select the first file listed in step 1 (this is the flow that creates a new row in excel). This will open a new page       6. Scroll down and you should see three red circles with an exclamation point inside, On the row with the flow’s name click on “update” and under “Setup” choose “Create as new” and name the flow if you want. Click save       7. Move down to the second row where you see “Excel Online” under “Resource type”, click on “Select during import” then click “Create new”. This is open the Connections tab where you will click “New Connection” towards the top Search or navigate to the “Excel Online (Business)” option and select it. Log into the account that you have with SharePoint. You will see the connection appear in the connections list.       8. Move back to the previous tab where you have the flow open. Click “refresh list” and choose the connection we just made.       9. Move down to the third row where you see “SharePoint Connection” under “Resource type”, click on “Select during import” then click “Create new”. This is open the Connections tab where you will click “New Connection” towards the top Search or navigate to the SharePoint option and select it. Choose the “Connect directly” option and Log into the account that you have with SharePoint. You will see the connection appear in the connections list.       10. Move back to the previous tab where you have the flow open. Click “refresh list” and choose the connection we just made.       11. Once that has been done, Click “Import” at the bottom of the form.       12. When that is done loading, Click on “Open flow” where on the web page that appears. This will open a new tab; navigate there.       13. Begin by clicking the flow’s name in the teal box, this will open a menu for configuration. Under the “Site Address” drop down, select the site that you want the flow to be active on. Similarly, Under “List name” choose the list that was imported with the SharePoint site. We are done with the SharePoint menu       14. Navigate to the Excel menu and click the action to open the full menu. For the “Location” drop down choose the group/site associated with the Site Address from the previous step. For the “Document Library” choose “Documents”. For “File” choose the database excel sheet imported with the SharePoint template (It should be called /database.xlxs). For “Table” Select Table1. The fields will auto populate but in the event they do not you will need to go in and populate each field with the corresponding data point (Ex. Under “Type of project” you would select “Type of project” from the list of parameters; See “flowscreenshot” for an idea on how this will look). Once this has been done click “Save” and test the flow by turning it on the top of the flow’s tool bar at the top of the page (You may have to click the three dots if it is not on the tool bar) and adding an item to the SharePoint list and seeing pop up in the Excel page. Note the first run of a new flow can take a minute or two. (If you have any issues you may have to check the site address and list you selected to make sure it matches with the location of the excel document and the table within)       15. We will now navigate by to “My Flows” and click “Import” once again. This time choose the second flow listed in step 1 (this is the flow that updates rows in excel). This will open a new page       16. For the first row click “Update” and choose “create as new”. For the second and third row click “Select during import” and choose the connections we made previously.       17. Click “Import” and on the next page choose “Open flow”       18. Just as in previous steps, click the SharePoint drop down and for “Site Address” choose the site of the previous flow we created. For “List or Library Name” choose the same list as the pervious flow. Do not specify folder.       19. Next click on the excel drop down and for “Location” choose the same location as the previous flow. For “Document library” choose “Documents” (an error message might appear here, please ignore). For “File” choose the sake excel document as in the previous flow. For “Table” choose Table1. For “Key Column” choose “Local ID” if it has not auto populated. All other data points will auto populate but if not you will have to match the data with the slot (Ex. For Project title you would choose title from the list of parameters). Scroll down and hit save.       20. Go to the flow’s main display and turn it on and test it by editing a row in the SharePoint list.       21. For the final time click “My Flows” and select “import” and upload the last file listed in step 1 (this is the flow that deletes rows from excel). This will open a new page       22. For the first row click “Update” and choose “create as new”. For the second and third row click “Select during import” and choose the connections we made previously.       23. Click “Import” and on the next page choose “Open flow”       24. Just as in previous steps, click the SharePoint drop down and for “Site Address” choose the site of the previous flow we created. For “List Name” choose the same list as the pervious flow.       25. Next click on the excel drop down and for “Location” choose the same location as the previous flow. For “Document library” choose “Documents” (an error message might appear here, please ignore). For “File” choose the sake excel document as in the previous flow. For “Table” choose Table1. For “Key Column” choose “Local ID” if it has not auto populated. For Key value choose “ID” if it has not auto populated. Scroll down and hit save.       26. Test by deleting a row from the SharePoint list. Note that if you have any rows with in excel that do not have a matching Local ID to a list item that row will remain in place since the flow will not be able to find that key: value pair for deletion however, you can always manually delete this row in the excel if needed. 3. Custom site transition    1. Transitioning the source code       1. The source code for the website will be kept in a private Git Hub repository that the problem sponsor has access to (Link to git repo)       2. Once the hosting service is in place, the code can be given to the hosting service and implemented by them       3. The Navy-12 team will make themselves available throughout this process although it will be after the completion of the cohort.       4. The source code is found in the zip file titles “capdevsite copy.zip”    2. Transitioning the Azure Database       1. Inside of the Azure portal; under "Azure Services" you should be able to see "SQL databases"       2. Click on "SQL Databases"       3. There should be a button to create a new database       4. Once you click it, a "Create SQL Database" form will pop up.       5. Under project details, select the azure subscription and resource group the database is going to be under       6. (if there is no resource group, just create a new one)       7. Under database details, enter a database name, and select where the server is going to be stored.       8. Keep "Sql elastic pool" set to no.       9. Select "compute + storage" to whatever meets your needs.       10. (As an example, for testing, we used 10 DTU's with 250gb of storage.)       11. Under backup storage redundancy, select "geo-redundant backup storage"       12. Click "Review + create"       13. Once that is done, you should see an overview of the sql database.       14. Click on "Query editor" that is on the left hand side menu.       15. Enter your credentials and log into the database       16. Inside of query 1, enter this command:   “CREATE TABLE projects (  id INT PRIMARY KEY NOT NULL,  created DATETIME NOT NULL,  title VARCHAR(100) NOT NULL,  projectdesc VARCHAR(500) NOT NULL,  commanderintent VARCHAR(100) NOT NULL,  imageURL VARCHAR(300) NOT NULL,  nextmilestone VARCHAR(200),  nexttestevent VARCHAR(200),  lao VARCHAR(300),  laopoc VARCHAR(300),  resourcesponsor VARCHAR(300),  resourcepoc VARCHAR(300),  acquisitionsponsor VARCHAR(300),  acquisitionpoc VARCHAR(300),  programoffice VARCHAR(300),  capabilitygap1 VARCHAR(100),  capabilitygap2 VARCHAR(100),  capabilitygap3 VARCHAR(100),  rasponsor VARCHAR(100),  stobjectives VARCHAR(100),  trl VARCHAR(100),  trljustification VARCHAR(100),  cost INT,  projecttype VARCHAR(100),  projectstatus VARCHAR(200),  objectives VARCHAR(200)  );”   * + 1. Click on run, then at the bottom, you should see a success message.     2. To verify that this worked, remove the command, then enter the following:   “SELECT \* FROM projects;” Under results, you should see the table headers, but no information since the table is empty. From there, you are finished; you have created an SQL database   1. For any questions please contact Henry Madsen or Francisco Gonzalez at either [hmadsen@xforcefellow.us](mailto:hmadsen@xforcefellow.us) or [fgonzalez@xforcefellow.us](mailto:fgonzalez@xforcefellow.us)   **FOR FELLOW PROJECTS INVOLVING SOFTWARE/CODE OF ANY KIND:**   * Given the problem sponsor already has office 365 and the necessary tools to host the SharePoint site, it will be passed along to them and hosted on their existing subscriptions. * The problem sponsor will not be continuing a subscription to the server where we have built the custom site.   + The problem sponsor is developing the ability to host the custom site thus the source code will be passed along for later use once that capability has been developed. Once the site can be hosted the Navy 12 team has agreed to be available during that process despite it being after the cohort’s conclusion date. We will work with the GXM engineering team to pass along a copy of all source code associated with the custom site. * See the XFF 2021 Equipment + Materials Template for all necessary subscriptions and servers. |