

NYC High Schools Demo Cookbook

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Get Access to the OCI Gen AI Service

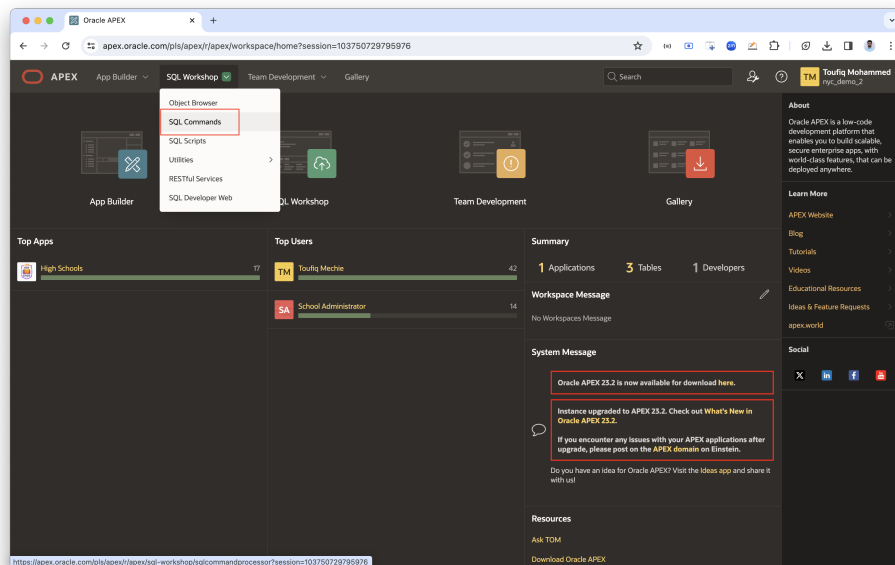
1. OCI Generative AI Service is currently available in the Chicago Region. See Documentation : <https://docs.oracle.com/en-us/iaas/Content/generative-ai/overview.htm#regions>
2. Make sure your tenancy is subscribed to the Chicago Region.
3. Make sure you have permissions to use OCI Generative AI Resources. This is controlled by IAM Policies on OCI. <https://docs.oracle.com/en-us/iaas/Content/generative-ai/iam-policies.htm>
4. Create an API Key to authenticate your API calls. See Documentation : <https://docs.oracle.com/en-us/iaas/Content/API/Concepts/apisigningkey.htm#two>
 - a. Make a copy of the OCI User Id, Tenancy Id, Fingerprint, Private Key from the API signing key.
 - b. Determine the compartment under which you are going to consume the OCI Generative AI resources and note down the compartment OCID. If you're using the Root compartment, your tenancy OCID will be the compartment OCID.

Install the NYC Schools Demo App

1. Get yourself an APEX Workspace - <https://apex.oracle.com/en/learn/getting-started/>
2. [nyc-schools-demo.sql](#) is the NYC School Demo App export
3. Import the App into your Workspace:
 - a. Install Supporting Objects when prompted.
 - b. Supporting Objects installs required tables & NYC High Schools Data

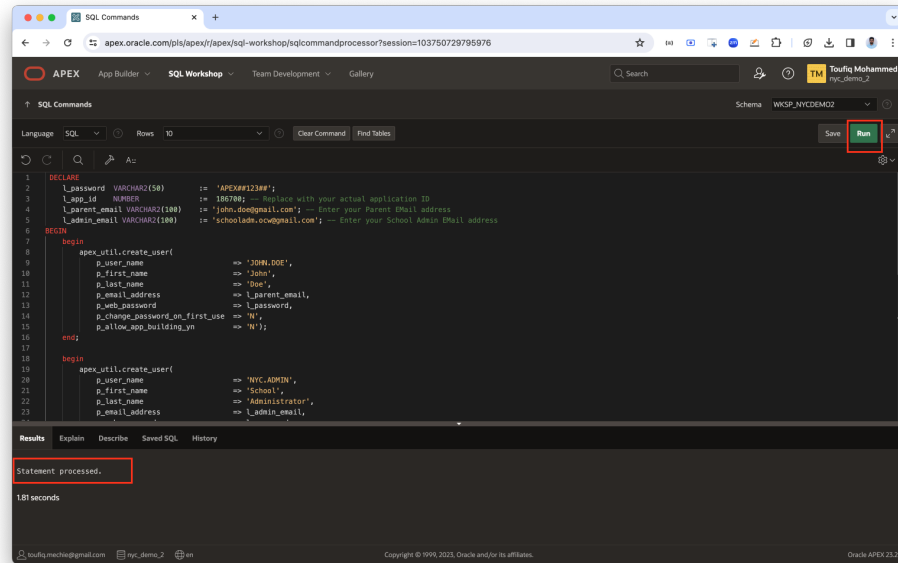
Demo Setup

1. Create Application Users and Push notification Setup
 - a. Go to SQL Workshop > SQL Commands



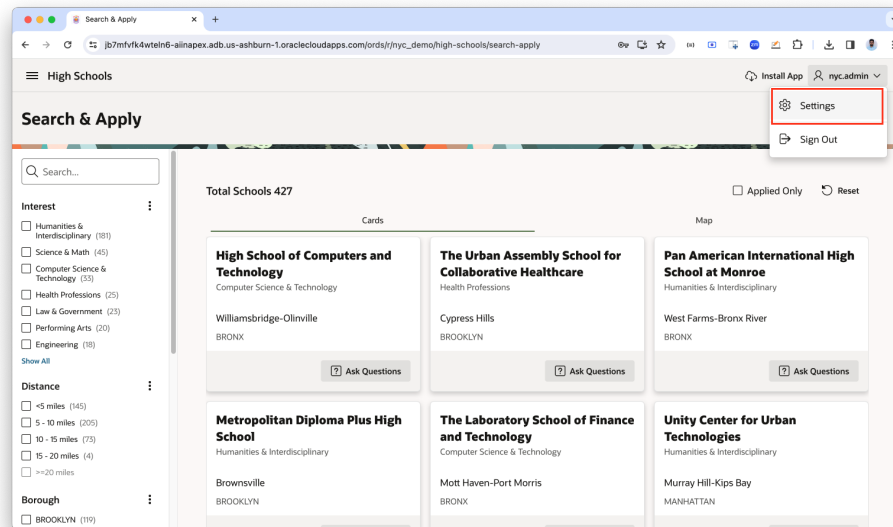
- b. Copy this script : [create-application-users.sql](#) and paste it in the SQL Commands
- c. Replace password value in Line 2 with your own password(Optional)
- d. Replace the application id from Line 3 with that of your actual application id.
- e. Replace the parent and school admin email ids in lines 4 & 5 to receive email notifications. Use the email id(s) which you can access. Both Parent and Admin Email Ids can be same as well, no restriction!

f. Run.

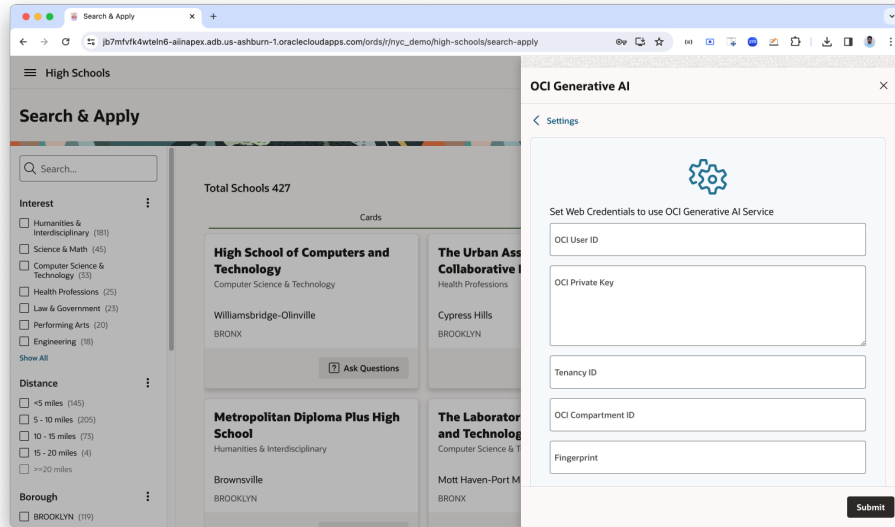


2. Demo Setup - OCI GenAI Web Credentials

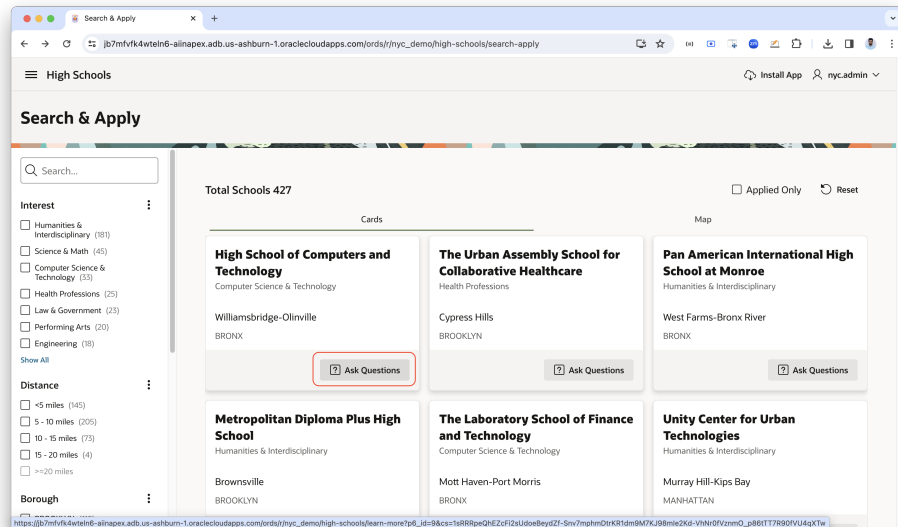
- After successful installation of the Demo App, Login as NYC.ADMIN user.
- Click *nyc.admin* on the top right-hand corner, and click *Settings*.



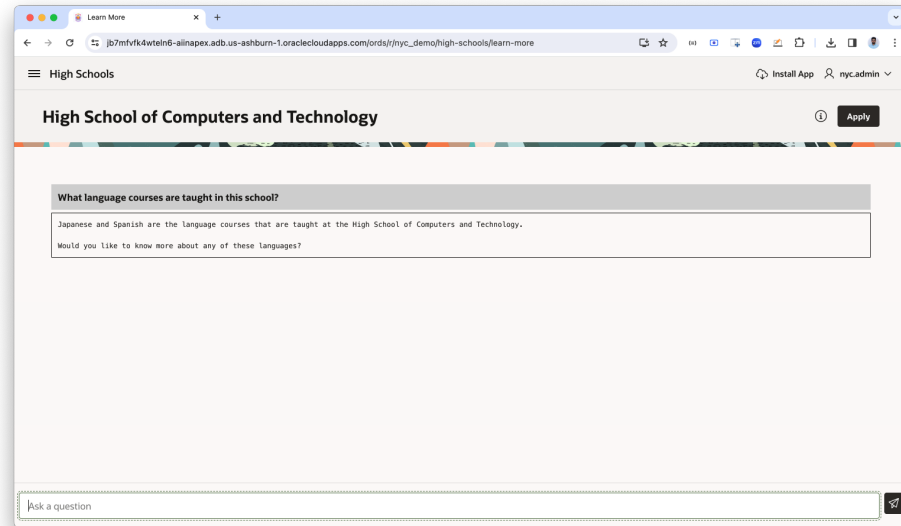
- c. Click OCI Generative AI Settings and fill in the API Key Details obtained above in the *Get Access to OCI Generative AI* section. Use the compartment ID, which has required policies configured to access OCI Generative AI service in your tenancy.



- d. Test your Demo Setup.
i. On the Search & Apply Page, Click the "Ask Questions" button.



- ii. on the Learn More page, Ask a question: What language courses are taught in this school?



A well-formed response from the Gen AI service indicates that the demo setup is successful.

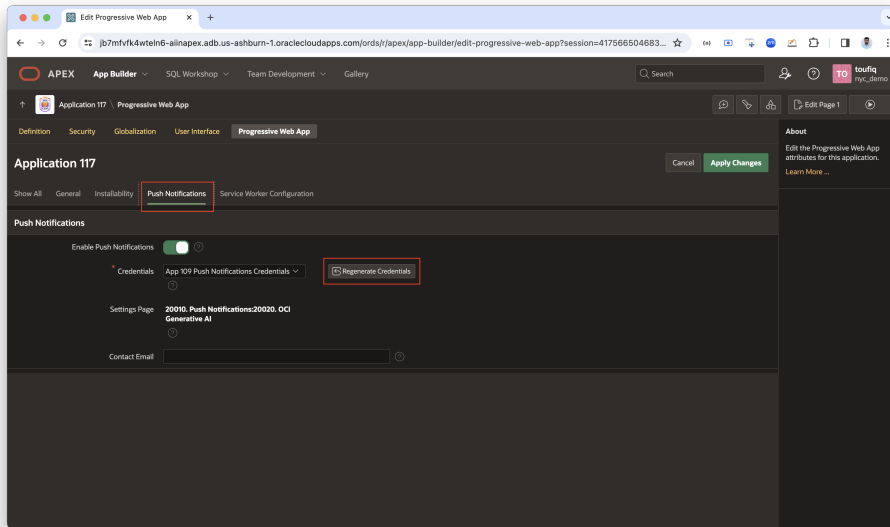
Email Setup

If you're using Autonomous Database for this demo you will have to use the Email Delivery service on Oracle Cloud to send Emails. Refer to the below blog post for instructions : <https://blogs.oracle.com/apex/post/sending-email-from-your-oracle-apex-app-on-autonomous-database>

Push Notification Setup

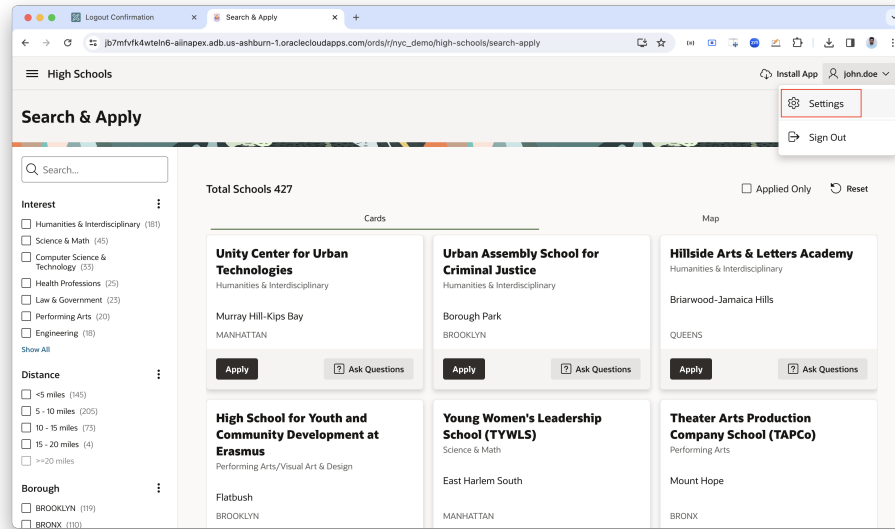
To enable Push Notifications:

1. Login to Workspace as developer.
2. Go to App Home page of your Demo App and Click Shared Components
3. Click Progressive Web App under User Interface
4. Go to Push Notifications tab and Click *Regenerate Credentials*



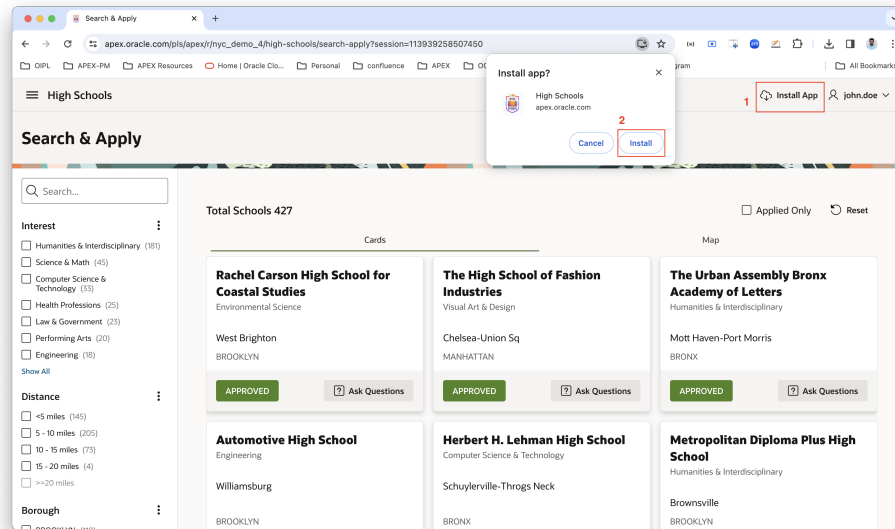
5. Run the application and Login as John.Doe

6. Click john.doe on the top right hand corner, Click Settings



7. Click Push Notifications and Check the **Enable push notifications on this device** checkbox.

8. Additionally, you can also install the app as PWA. Click Install App button in the top navigation bar and Install the App



Demo Flow

[Parent User: JOHN.DOE] Parent

1. Login in as john.doe/<PASSWORD> (by default, the faceted search page will be shown).
2. Talk about the Search & Apply Page.
 - a. Explain faceted search.
 - i. Apply facets for Interest - **Science & Math, Computer Science & Technology**
 - b. Change over to Maps region and show the map.
 - i. Apply facet for distance - **Less than 5 Miles**
 - ii. Apply the Second facet for Borough - **Manhattan**. The search narrows down to 15 records.
3. Flip over to the Cards Tab
4. Click on **Learn More** for the first school - **Young Women's Leadership School (TYWLS)**
5. Ask one or two questions in natural language and get the answers back. Then Click **Apply**.

Example Prompts:

- a. What advanced placement courses are taught at this school?
 - b. What language courses are taught here?
 - c. What academic opportunities are available in this school?
 - d. Which PSAL sports are played for girls?
6. Additionally, you can also talk about the background of how this is being done. Press the "info" button and show the context sent as input to the LLM Model.

7. Now, this school looks good for my daughter. Click **Apply**
8. Fill in the **Student Name** and Click **Generate Email** to let AI generate the email.
9. Make a few modifications to the email if required. If the AI-generated email is not good enough, Re-generate the email by clicking on the **Generate Email** button again.
10. Click on the info button in the footer to show the Prompt used to generate this email.
11. Click **Send Application**

[Admin User: NYC.ADMIN]

1. Admin receives an Email. Open the Email, and click on the link in the email. This navigates to the login page
2. School Admin Logs in (NYC.ADMIN/<PASSWORD>)
3. Show the Pending Approvals Page (Unified Task List - My Tasks)
4. Add a comment and approve the application.

[Parent User:JOHN.DOE]

1. Approval from Admin sends a push notification to the parent who has the app installed as PWA.
2. Parent Clicks on the push notification, which takes to the "Search and Apply page" and opens up the Approved Task Details Page, which shows the comment from the Admin and the application approved stage.

Under the Hood Demo: Developer Login

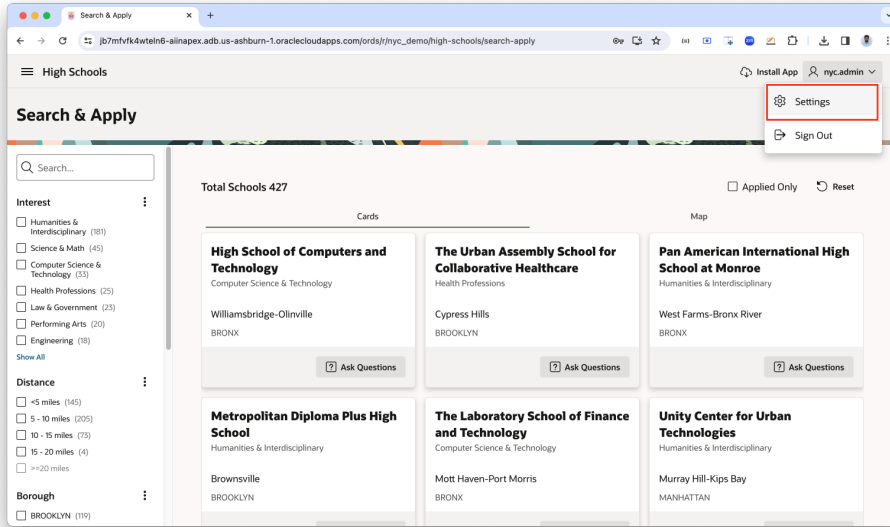
- Close the running app tab
- Log into APEX workspace
- Navigate to App from the app list and point out all the pages, and then run the app
- Point out the Developer Toolbar at the bottom of the page (visible because you're logged into APEX, too, in another tab)
- click 3rd button in the developer toolbar
- Navigate to the application home page and then go to "Shared Components." - the definition of "REST Data Sources" is done at the APEX Application level, and in shared components, click it
- "REST Data Sources" is in the bottom left; note there is currently only 1 for this app - drill into this definition. In the report then seen, there is only 1 entry; click the title.
- Point out the remote server/endpoint URL and that what is defined is a **post-operation** with **parameters** "as listed."
- switch back to running the app
- Navigate to **QUESTIONS** - point out the APEX page components, such as the input box, and the page button that is clicked by the user
- Bring attention back to the APEX developer toolbar at the bottom, and edit the page with the 2nd button, **Page 6** link
- Point out the page components in the layout section: scroll down to the button and talk about how this is the **button** that makes the page submit to APEX with the question value
- in the rendering tree on the left (at top), click on **page processes** (the recycle looking icon), talk about each of the 3 processes defined, which run sequentially in response to that button click on submit:
 - the prompt parameter being assembled currently by way of a small amount of PL/SQL
 - the AI service invocation process which will use the prompt parameter; click on the process tree list entry so that you can talk about the mapping of this process to THE REST data source reviewed initially
 - the last process is about parsing the response with a little bit of code for the purpose of displaying in the app (the AI service response is a JSON document)
- these minor uses of PL/SQL are what a future release of APEX will hope to make more declarative for the service.

Reset Demo

To Reset the demo for re-use:

1. Login as NYC.ADMIN user.

2. Click *nyc.admin* on the top right-hand corner, and click *Settings*.



3. Click Reset Demo

