



Bringing Intelligence into Modern Applications

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Transforming Ideas into code

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Transforming Ideas into code

- APEX Enthusiast
- Oracle ACE Alumni
- Open-Source Plugins
- Certified Scrum Master, Agile Scrum Master
- Driving Agile Transformation
- Scalable Solutions in Oracle APEX
- Blogger and Content Creator
- Conference Speaker



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Agenda

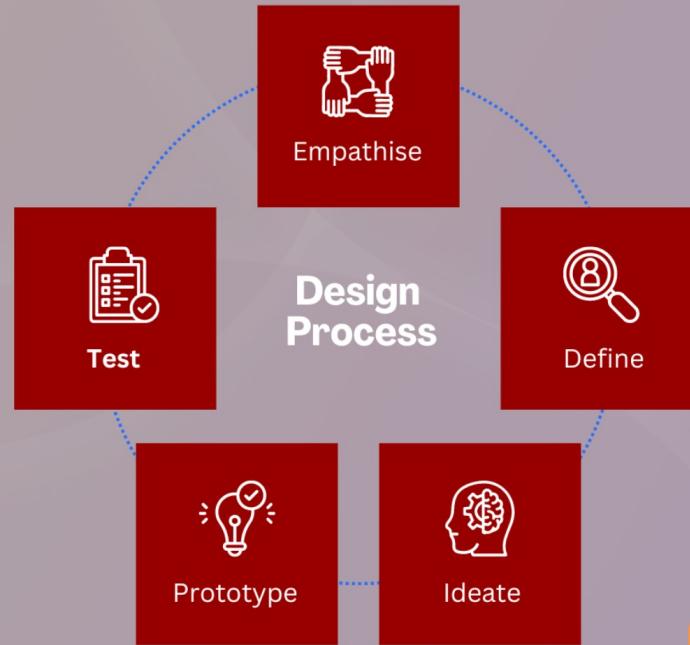
- Customer Success and Delivered services
- Generating AI-Based Output Without Large Language Models (LLMs)
- Retrieval-Augmented Generation (RAG) in APEX
- APEX_AI Package: Leveraging AI in APEX
- Automatic Suggestions Using AI



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EXPLORE



Services

- **Custom Applications Development**
- **Custom Plugins**
- **Seamless integration**
- **On Premise to Cloud (Lift and Shift)**
- **Legacy Apps Modernisation**

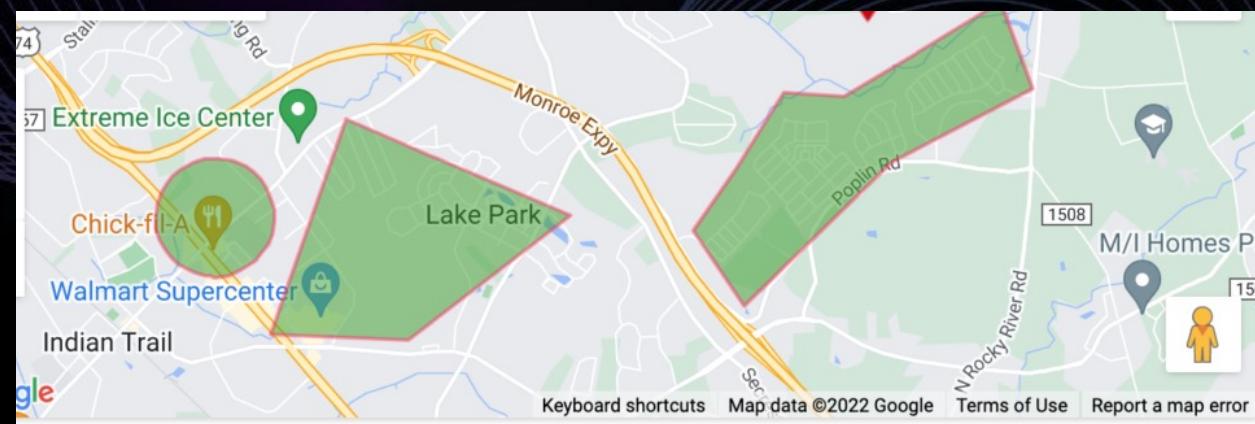
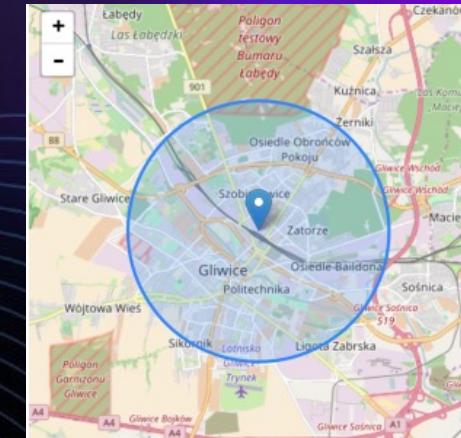
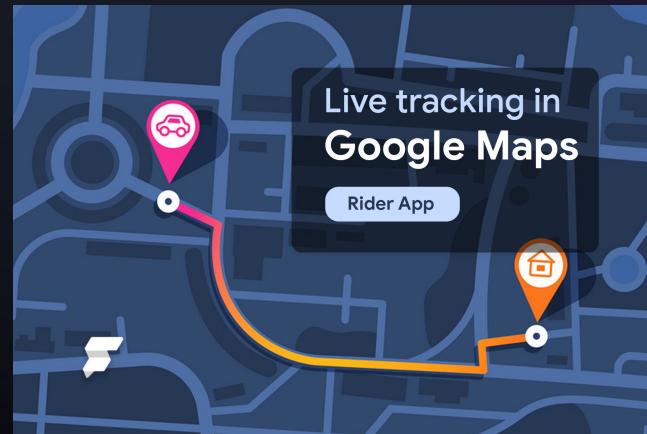
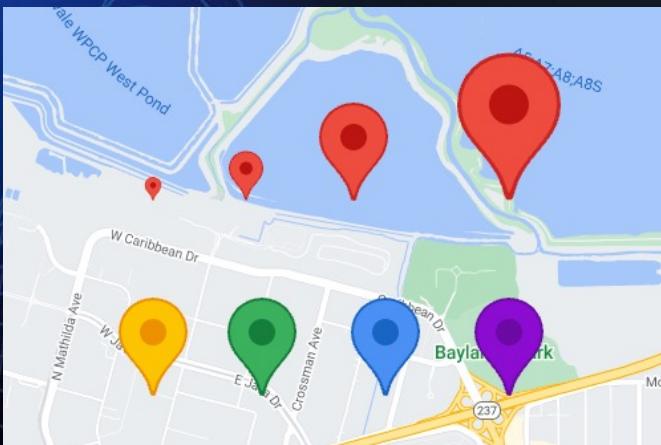


Our Application list

- HR Management System
- Leave Management System
- Background Scheduler Management
- Tracker/BLE integration (Live Tracking)
- E-Commerce Application
- ETL Bulk Data processing
- Claim Management
- Insurance Management System
- Health Management system



Tracking and Marking



AI with APEX

Enhances low-code development

Built-in AI capabilities via the **APEX_AI**

Automate processes

APEX chatbots for customer support

AI-powered search and recommendations



Demo

General AI
integration
app

Diet
suggestion
application

Story writing
and
suggestion
for content
creation

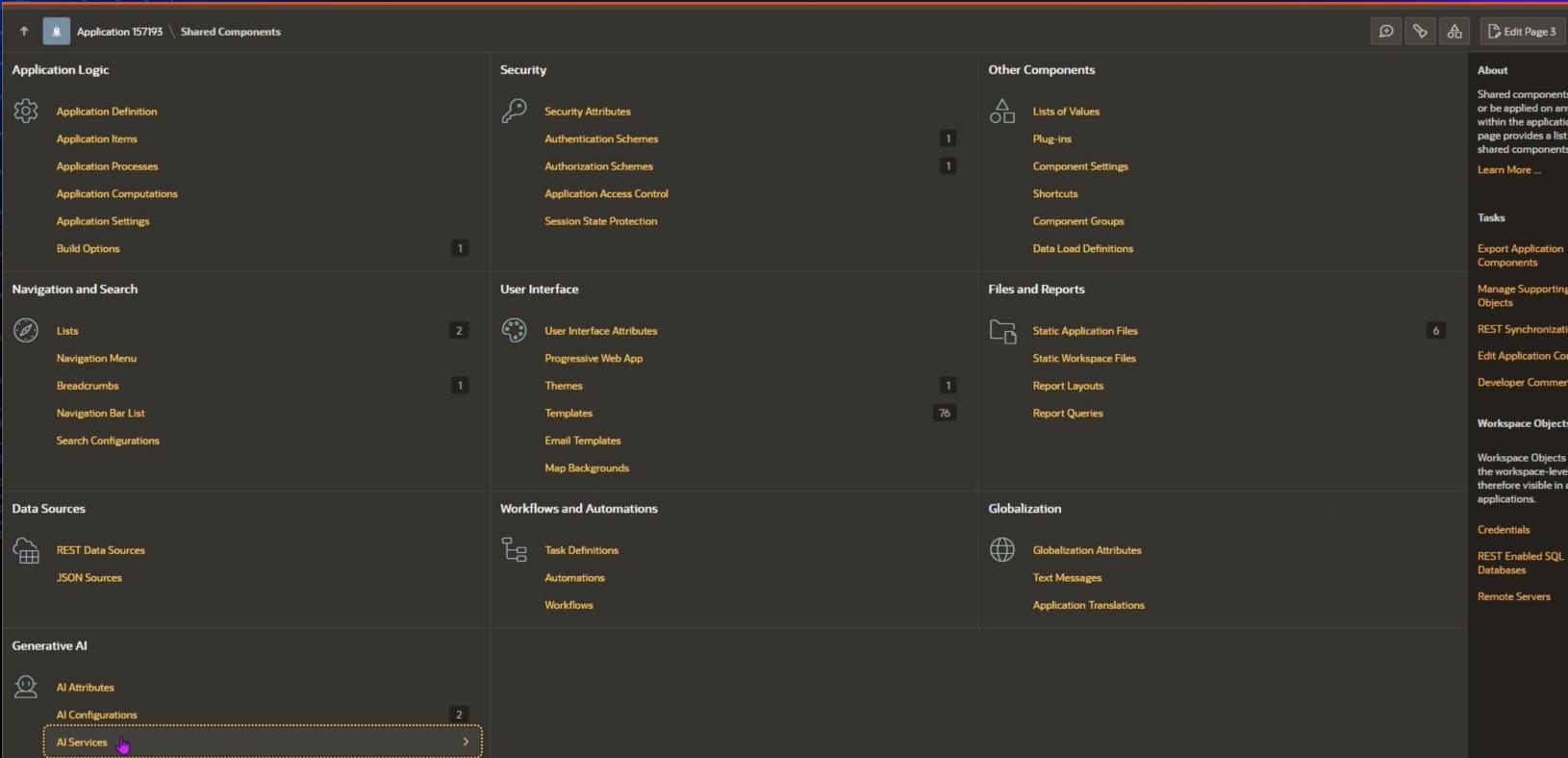
Knowledge
base
Collaboration



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AI Integration with APEX – Setup AI Service

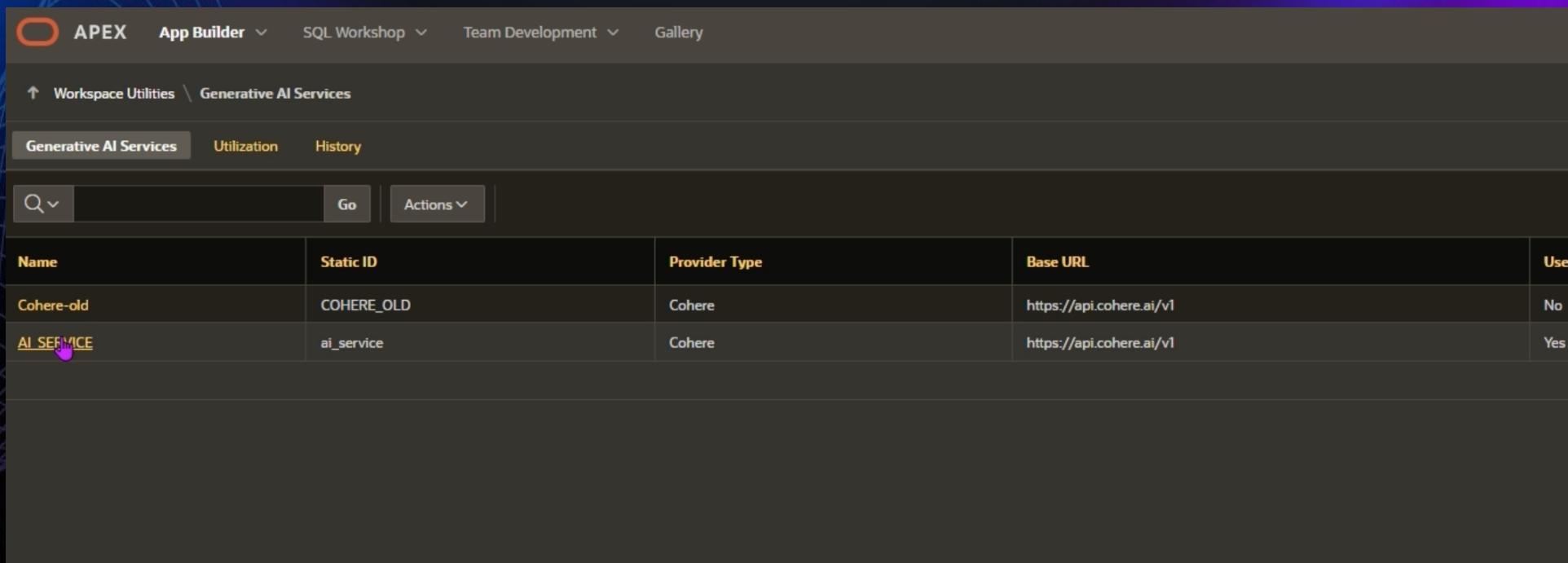


The screenshot shows the Oracle APEX Shared Components page for Application 157193. The page is organized into several sections:

- Application Logic:** Includes Application Definition, Application Items, Application Processes, Application Computations, Application Settings, and Build Options.
- Navigation and Search:** Includes Lists, Navigation Menu, Breadcrumbs, Navigation Bar List, and Search Configurations.
- Data Sources:** Includes REST Data Sources and JSON Sources.
- Generative AI:** Includes AI Attributes, AI Configurations, and AI Services (which is highlighted with a red box and a purple arrow pointing to it).
- Security:** Includes Security Attributes, Authentication Schemes, Authorization Schemes, Application Access Control, and Session State Protection.
- User Interface:** Includes User Interface Attributes, Progressive Web App, Themes, Templates, Email Templates, and Map Backgrounds.
- Workflows and Automations:** Includes Task Definitions, Automations, and Workflows.
- Other Components:** Includes Lists of Values, Plug-ins, Component Settings, Shortcuts, Component Groups, and Data Load Definitions.
- Files and Reports:** Includes Static Application Files, Static Workspace Files, Report Layouts, and Report Queries.
- Globalization:** Includes Globalization Attributes, Text Messages, and Application Translations.
- Workspace Objects:** Includes Manage Supporting Objects, REST Synchronizations, Edit Application Comments, and Developer Comments.
- About:** Shared components can be applied on any page within the application. This page provides a list of all shared components. Learn More ...
- Tasks:** Export Application Components, Manage Supporting Objects, REST Synchronizations, Edit Application Comments, Developer Comments.
- Workspace Objects:** Workspace Objects are shared at the workspace-level and therefore visible in all applications. Credentials, REST Enabled SQL Databases, and Remote Servers.



AI Integration with APEX – Setup AI Service



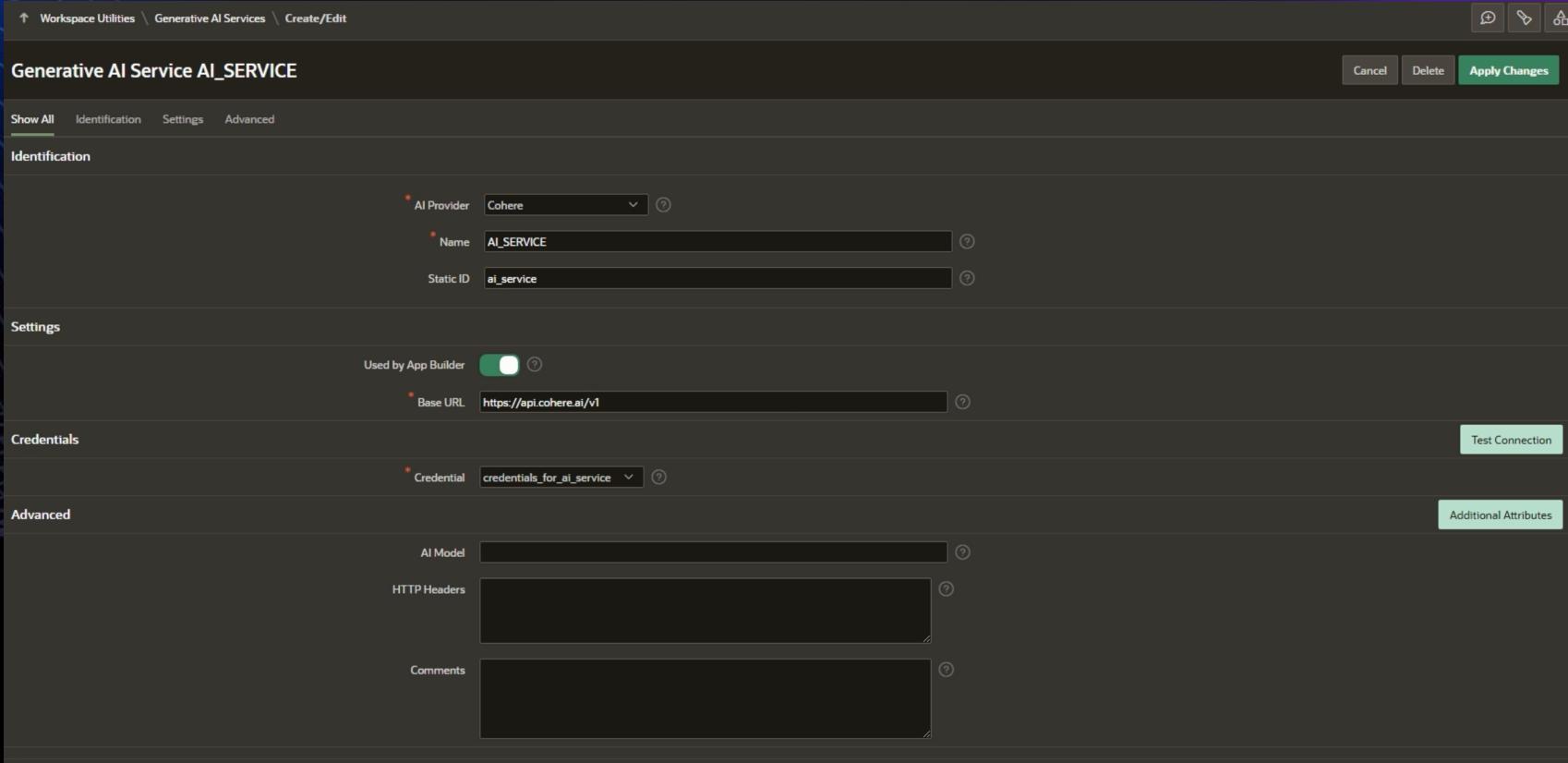
The screenshot shows the Oracle APEX interface for managing Generative AI Services. The top navigation bar includes links for APEX, App Builder, SQL Workshop, Team Development, and Gallery. The current page is 'Generative AI Services', which is the active tab in the navigation bar. The page title is 'Generative AI Services' and the subtitle is 'Utilization History'. A search bar with a magnifying glass icon and a 'Go' button is present. Below the search bar is a table listing two AI services. The columns are: Name, Static ID, Provider Type, Base URL, and Used. The first service is 'Cohere-old' with Static ID 'COHERE_OLD', Provider Type 'Cohere', and Base URL 'https://api.cohere.ai/v1'. The second service is 'AI SERVICE' with Static ID 'ai_service', Provider Type 'Cohere', and Base URL 'https://api.cohere.ai/v1'. The 'Used' column indicates that the second service is Yes.

Name	Static ID	Provider Type	Base URL	Used
Cohere-old	COHERE_OLD	Cohere	https://api.cohere.ai/v1	No
AI SERVICE	ai_service	Cohere	https://api.cohere.ai/v1	Yes



AI Integration with APEX – Setup AI Service

as



Workspace Utilities \ Generative AI Services \ Create/Edit

Cancel Delete Apply Changes

Generative AI Service AI_SERVICE

Show All Identification Settings Advanced

Identification

* AI Provider: Cohere

* Name: AI_SERVICE

Static ID: ai_service

Settings

Used by App Builder:

* Base URL: <https://api.cohere.ai/v1>

Credentials

* Credential: credentials_for_ai_service

Advanced

AI Model:

HTTP Headers:

Comments:

Test Connection Additional Attributes

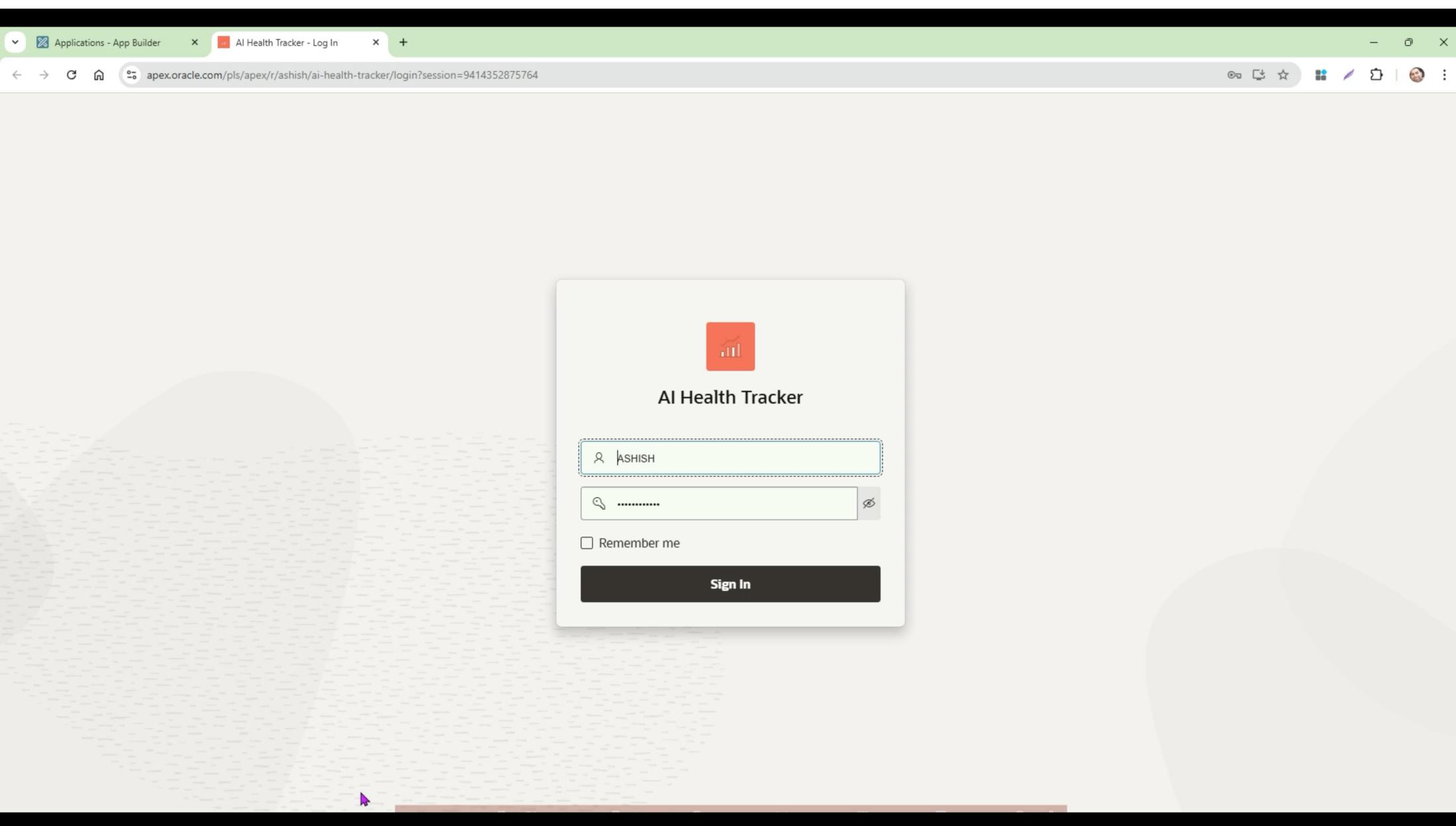


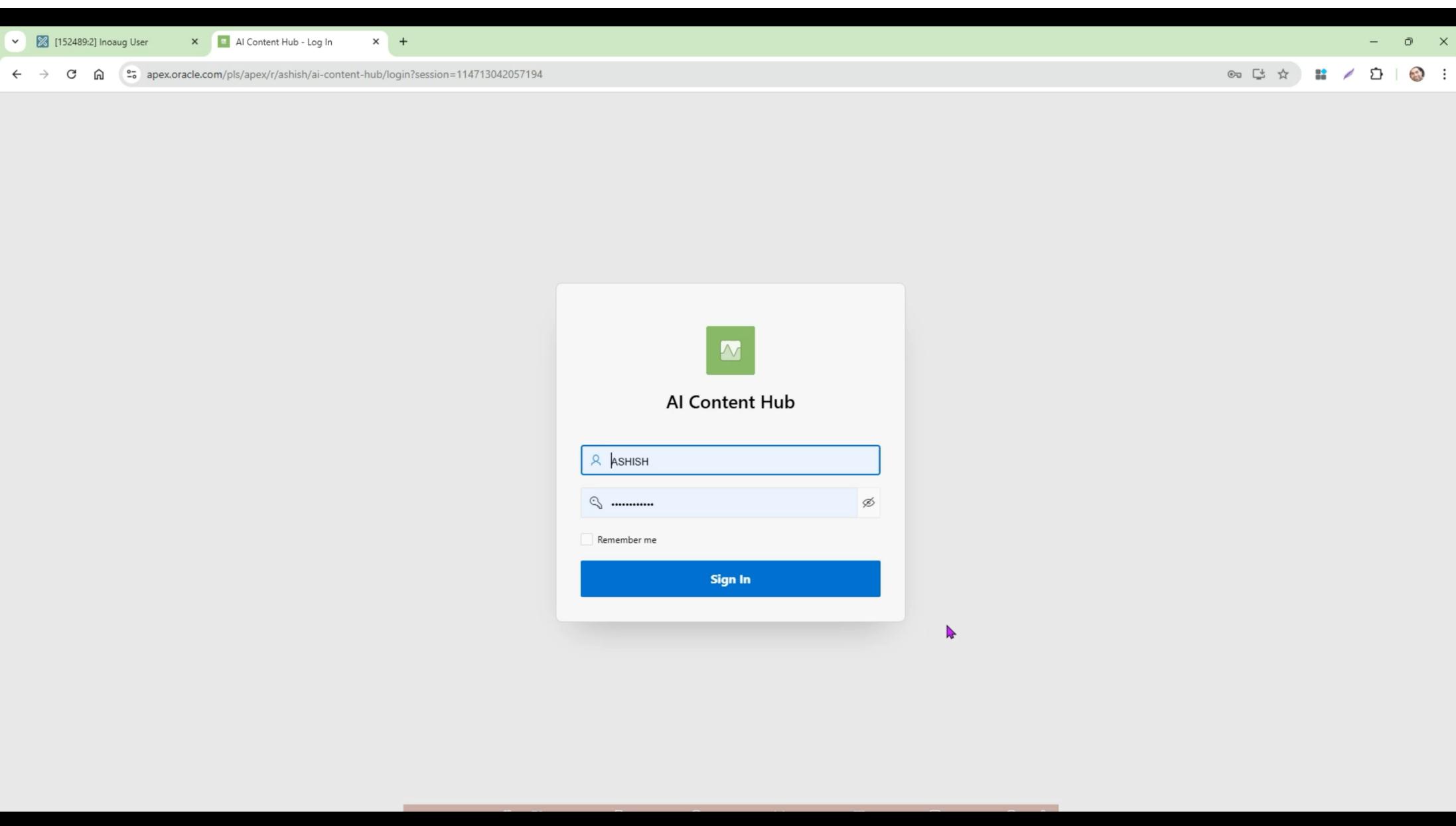
A screenshot of a web browser window showing the APEX + AI application. The browser tabs at the top are labeled "[157193:3] AI SEARCH" and "APEX + AI". The address bar shows the URL apex.oracle.com/pls/apex/r/ashish/apex-ai/home?session=109015665330141. The main content area displays the APEX + AI logo and the text "APEX + AI". On the left, a dark sidebar menu lists the following options: Home, AI prompt, AI Search, AI Book Search, and AI Movie Search. At the bottom of the sidebar, it says "Release 1.0". The browser interface includes standard navigation buttons (back, forward, search, etc.) and a user profile icon in the top right corner.

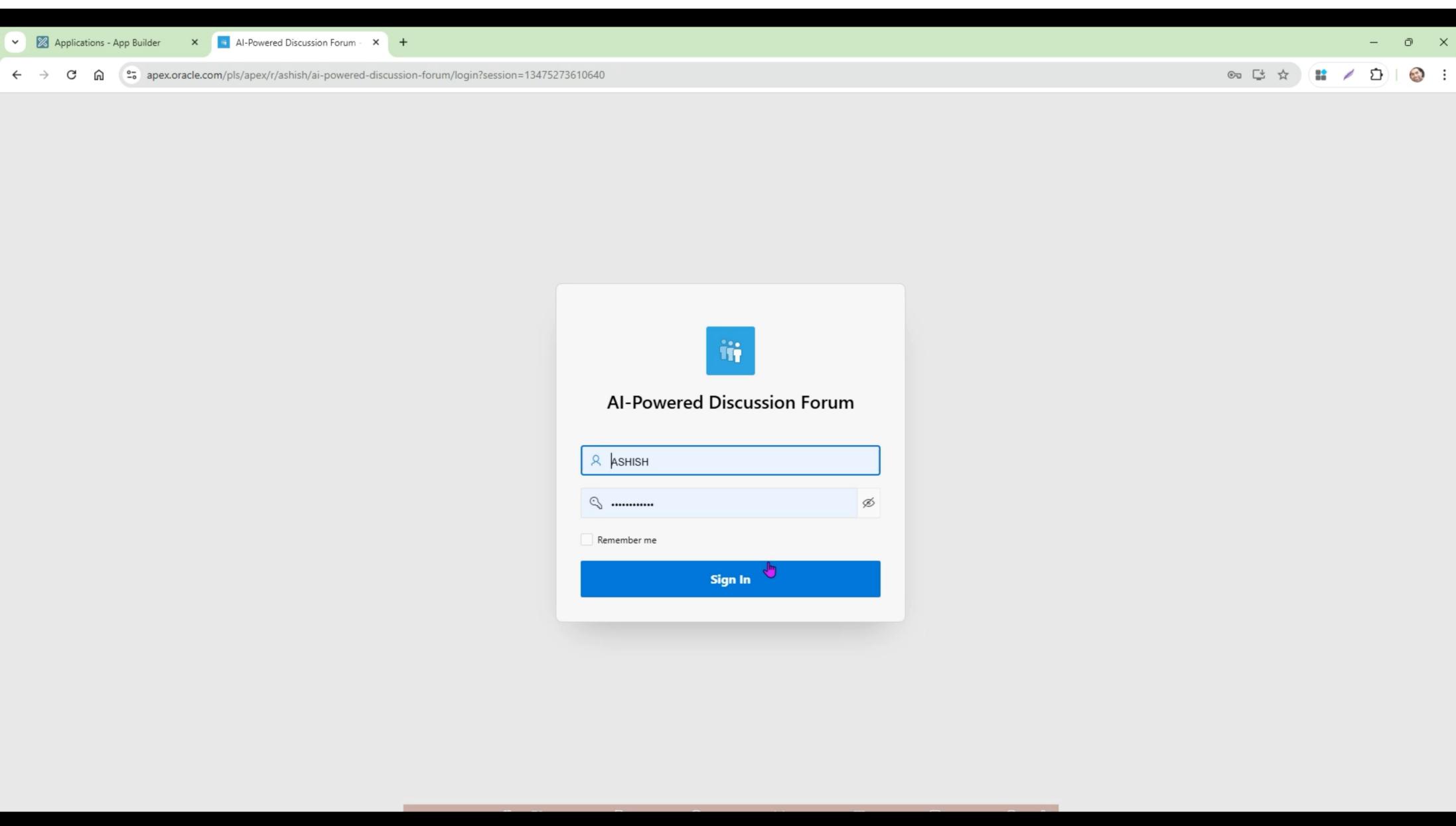
Books Catalog

Books Catalog											Actions	
Title	Author	Publisher	Publication Year	ISBN	Genre	Language	Page Count	Format	Description		Added Date	Last Updated
The White Tiger	Aravind Adiga	HarperCollins	2008	978-0-06-153016-15	Fiction	English	320	Hardcover	A dark satire on India's class struggle.		3/13/2025	3/13/2025
Malgudi Days	R.K. Narayan	Indian Thought Publications	1943	978-0-14-303965-11	Short Stories	English	264	Paperback	A collection of short stories set in Malgudi town.		3/13/2025	3/13/2025
The God of Small Things	Arundhati Roy	IndiaInk	1997	978-0-06-097749-14	Fiction	English	340	Paperback	A novel exploring caste, love, and tragedy in Kerala.		3/13/2025	3/13/2025
AI and the Future	John Doe	Tech Publishers	2023	978-1-234567-01-1	Technology	English	320	Hardcover	A deep dive into the future of AI.		3/13/2025	3/13/2025
Machine Learning Basics	Jane Smith	ML Press	2022	978-1-234567-02-2	Education	English	250	Paperback	An introduction to machine learning concepts.		3/13/2025	3/13/2025
Deep Learning Simplified	Alan Turing	AI Research	2021	978-1-234567-03-3	Technology	English	450	eBook	A simple guide to deep learning.		3/13/2025	3/13/2025
Neural Networks Explained	Geoffrey Hinton	Data Science Press	2020	978-1-234567-04-4	Science	English	380	Hardcover	Understanding neural networks in AI.		3/13/2025	3/13/2025
Big Data Analytics	Andrew Ng	Big Data Publications	2024	978-1-234567-05-5	Data Science	English	500	Paperback	A comprehensive guide to big data analytics.		3/13/2025	3/13/2025
AI in Healthcare	Dr. Watson	MedTech	2023	978-1-234567-99-9	Medical	English	350	eBook	Impact of AI in healthcare industry.		3/13/2025	3/13/2025
Midnight's Children	Salman Rushdie	Jonathan Cape	1981	978-0-09-952155-13	Historical Fiction	English	533	Hardcover	A magical realism novel about India's independence.		3/13/2025	3/13/2025
Train to Pakistan	Khushwant Singh	Chatto & Windus	1956	978-0-14-306588-12	Historical Fiction	English	250	Paperback	A gripping tale of partition and human tragedy.		3/13/2025	3/13/2025

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Q & A



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