



# ANDROMEDA

Lifecycle App

## ABSTRACT

The Andromeda Application is a basic web project that allows users to create and manage parts and their related information. It includes simple features like part creation, part control, adding properties, tracking part history, and creating part specifications and documents. This project is a mock version meant to show how part management systems work in a basic and easy-to-use way.

**Nikhilesh Allikasam**

Mentored by Balamani Thiagarajan

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# ANDROMEDA USER MANUAL

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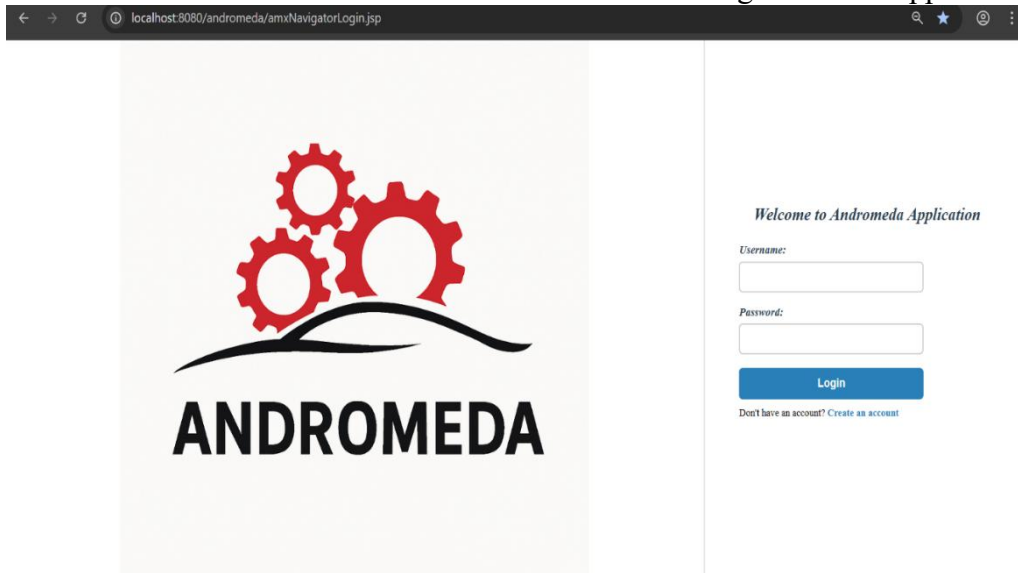
## Project Andromeda Documentation:

### Overview:

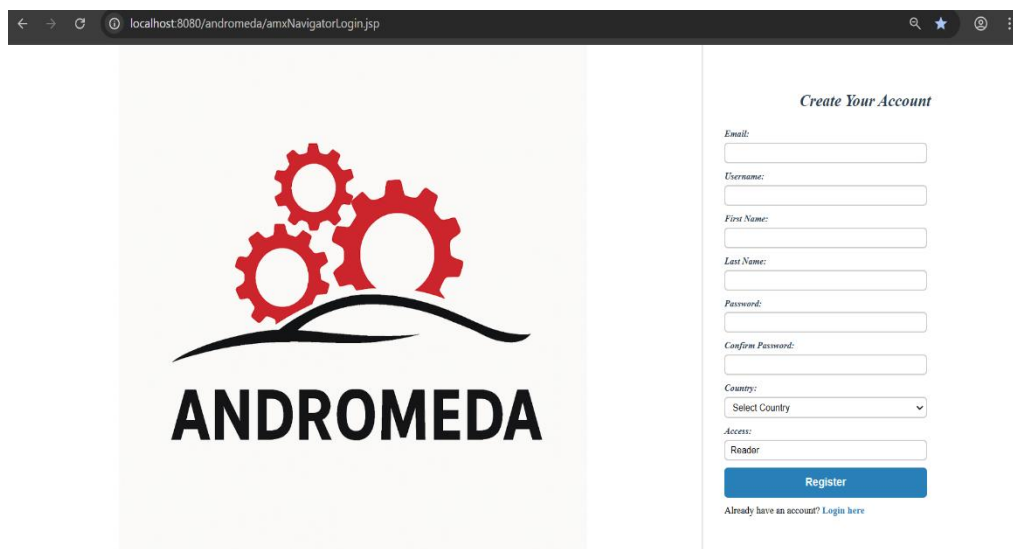
- This Section covers how the project and its components creation. It describes the initial setup, tools, technologies, and processes involved.
- The Andromeda project was initiated to address the need for the automotive creation of parts, part control and different part specification. The initial setup involved Java, Rest-Webservices, Tomcat server, PostgreSQL as the database. Key modules created includes the creation of Part, Part control and part specification and control management.

This is the overview of the Andromeda UI

1. This is the web UI if we need to create an account to login into the application. While creating your

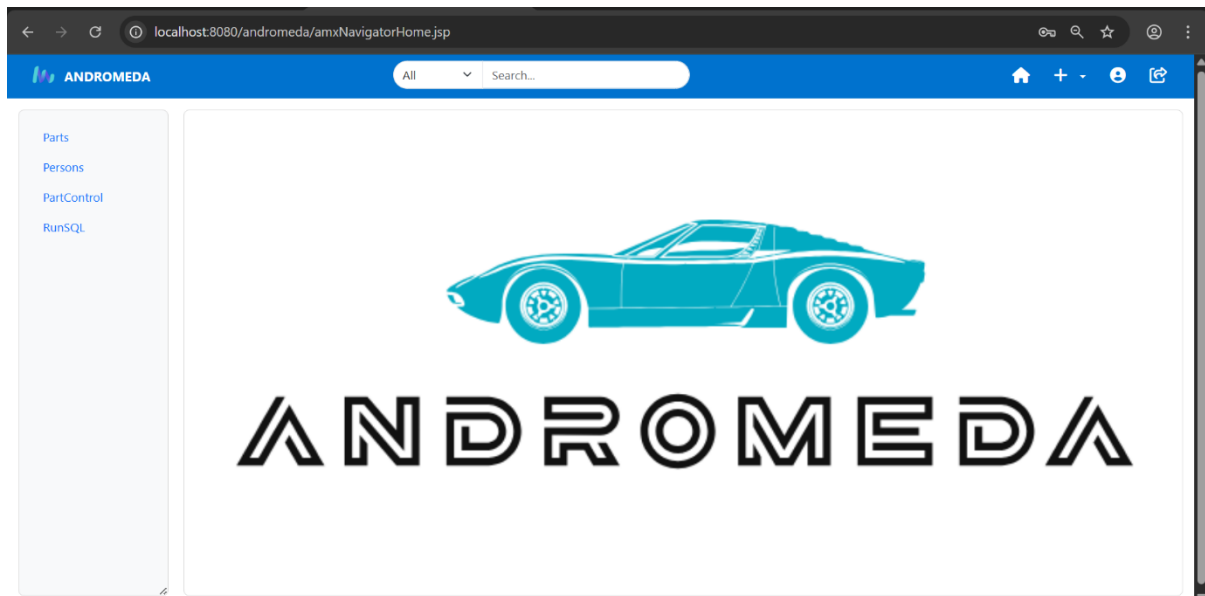


account for the application should provide some mandatory basic information. This will be the Page you will see after clicking on Create an account.

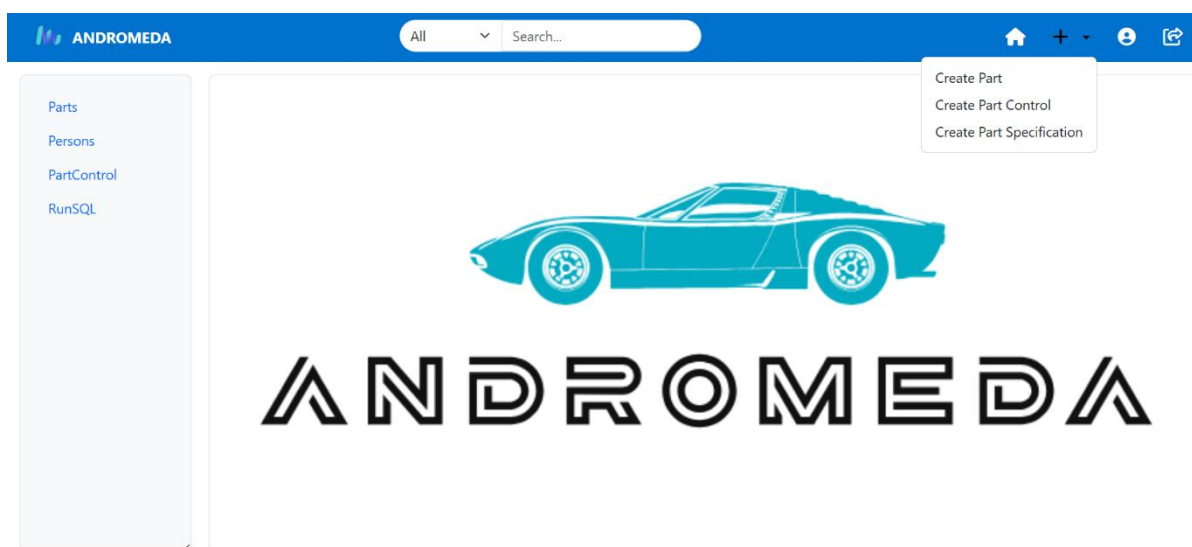


2. After Successful creation of your account and login to your application with our username and password and click on login, it will redirect to home page.

3. After redirecting to your homepage, you may see the different aspects to the application. You may notice the different parts which are present in the nav bar. We have home button plus icon, Profile info, and logout button, and we have search and in the side panel or left side we may notice the different non button hyperlinks.



4. You may notice the plus icon when we click on that you may see three different options when we click on that it opens its respective options. If we click Create part it opens its respective create part form.



5. When we click on create part it opens a create part form in that form you may see the different options like Super Type, Type, APN Description and Responsible Engineer based on the selected options you may get the options.
6. Same like that we can also see Create Part Control and Part Specification. Same like Create Part here also we have the different options and types supertype description and assignee in this here we can assignee the person to approve the part control.
7. In the Part Specification here we can mention the specification of the document in the super type and type and the responsible engineer.
- Here you can see the different parts of Part Creation Part Control creation and Part Specifications also.

**Create Part**

SuperType  
Part

Type  
Select  
BrakingSystem  
Chassis  
ElectricalSystem  
Engine  
Fastener  
SteeringSystem  
Suspension  
Transmission

Responsible Engineer  
nikhil

Submit Cancel

**Create Part**

Type  
Fastener

APN  
Select  
100-Bolts  
101-Nuts  
102-Screws  
103-Rivets  
104-Washers  
105-Clips & Clamps  
106-Pins  
107-Fastener for Interior  
108-Electrical System Fastener  
109-Security Fastener  
110-Fastener for body panels  
111-Suspension & Steering  
112-Engine&Mechanical  
113-Exhaust System  
114-Fuel System  
115-Brake System  
116-Transmission

**Create Part Control**

SuperType  
AmxControl

Type  
PartControl

Description  
Enter description

Assignee  
nikhil

Cancel Submit

**Create Part Specification**

SuperType  
Document

Type  
PartSpecification

Description  
Enter description

Responsible Engineer  
nikhil

Cancel Submit

8. After creation of Part, it redirects to the properties page and there you can see the details of the part that you have created and we also see the edit option of the parts for the edit we can only edit the description of the part and remaining parts are non-editable fields.

## Andromeda Parts

Name	Apn	Supertype	Type	Description	Createddate	Owner	Email	Currentstate
<a href="#">104-001-Washers</a>	104-Washers	Part	Fastener	small	9/22/2025	nikhil	nikhil@apn.com	RELEASED
<a href="#">114-001-Fuel System</a>	114-Fuel System	Part	Fastener	1/2 inch md clamps	9/22/2025	nikhil	nikhil@apn.com	RELEASED
<a href="#">400-001-Clutch</a>	400-Clutch	Part	Transmission	clutch wires	9/22/2025	nikhil	nikhil@apn.com	APPROVED
<a href="#">702-001-GearBox/rack</a>	702-GearBox/rack	Part	SteeringSystem	Racks	9/22/2025	nikhil	nikhil@apn.com	RELEASED
<a href="#">800-001-BrakePedal</a>	800-BrakePedal	Part	BrakingSystem	Test	9/24/2025	nikhil	nikhil@apn.com	INWORK
<a href="#">801-001-MasterCylinder</a>	801-MasterCylinder	Part	BrakingSystem	test	9/24/2025	nikhil	nikhil@apn.com	INWORK
<a href="#">803-001-BreakRopers/Drums</a>	803-BreakRopers/Drums	Part	BrakingSystem	Test Release	9/23/2025	nikhil	nikhil@apn.com	INWORK
<a href="#">805-001-AntiLockBreakingSystem</a>	805-AntiLockBreakingSystem	Part	BrakingSystem	ABS system	9/22/2025	nikhil	nikhil@apn.com	INWORK
<a href="#">901-001-Wireing</a>	901-Wireing	Part	ElectricalSystem	Test	9/23/2025	nikhil	nikhil@apn.com	FROZEN
<a href="#">901-002-Wireing</a>	901-Wireing	Part	ElectricalSystem	Test	9/23/2025	nikhil	nikhil@apn.com	INWORK

9. Here we can see the different parts created and that shows in the data table of different parts with the Name APN Supertype Type Description Created date Owner Email and Current state details of the parts.
10. Name fields are clickable fields if we click on that it will open the properties page of the part and also we have a list of other details regarding to that part.

**114-001-Fuel System**  
Fastener

State: **RELEASED**

**Part Properties**

- History
- LifeCycle
- ControlManagement
- PartSpecification
- SpecificationDocument

Name	114-001-Fuel System
Variant	Medium
Owner	nikhil
Supertype	Part
Created Date	2025-09-22 09:52:14
Description	1/2 inch md clamps
Type	Fastener
apn	114-Fuel System
email	nikhil@apn.com
currentstate	Released

**Edit Part Details**

**Owner**  
nikhil

**Supertype**  
Part

**Created Date**  
2025-09-22 09:52:14

**Description**  
1/2 inch md clamps

**Type**  
Fastener

**name**  
114-001-Fuel System

**variant**  
Medium

**apn**  
114-Fuel System

**email**  
nikhil@apn.com

11. We can see the edit pencil and refresh buttons in the toolbar of the properties page when we click on the edit it opens the edit panel which shows on the right side of the page. We can see the different properties of the part like History Lifecycle Control Management Part Specification and Specification Document.

### 11.1 HISTORY:

- In the history page we can see the history of the part

**114-001-Fuel System**  
Fastener

State: **RELEASED**

**Part Properties**


- History**
- LifeCycle
- Control Management
- PartSpecification
- SpecificationDocument

**History Entries**

Created by nikhil at 2025-09-22 09:52:14  
 Promoted to state: Frozen at 2025-09-22T16:26:32.498275  
 Promoted to state: Approved at 2025-09-24T13:00:08.0212300  
 Promoted to state: Released at 2025-09-24T13:11:04.625468

### 11.2 LIFE CYCLE:

- In the life cycle page, we can see the different stages of part life management from the starting state to the ending state.
- For the part we have four different stages, When the part is created it is default in the InWork state like it is the starting stage of the part.
- Moving on the transmission of the stage that the stage moves from one stage to other stage.
- Here we can have the forward and backward transmission also, that the part should move from one state to another state in a single transmission.
- When we click on the next state it moves to next state.


**800-001-BrakePedal**  
 BrakingSystem

State: **INWORK**

Part Properties  
 History  
**LifeCycle**  
 Control Management  
 Part Specification  
 SpecificationDocument

Life Cycle

In Work

Frozen


Approved

Released

State successfully changed to Frozen

### 11.3 CONTROL MANAGEMENT:

- When we move on the next stage of the part, we can see the control management in that it like to create the sub part of the created part.


**800-001-BrakePedal**  
 BrakingSystem

State: **FROZEN**

Part Properties  
 History  
 LifeCycle  
**Control Management**  
 PartSpecification  
 SpecificationDocument

\* +

- Here we have two buttons in the control management when we click on the star risk button it opens a create part control page on the right side and we can create the part. Once we create the part it shows here like this.

Part Properties  
 History  
 LifeCycle  
**Control Management**  
 PartSpecification  
 SpecificationDocument

\* +

**PartControlTable**

Name	Supertype	Type	Description	Createddate	Owner	Email	Assignee	Cu
PC-000005	AmxControl	PartControl	Fuel control	2025-09-22 09:58:56.952705	nikhil	nikhil@amx.com	nikhil	Cc

- When we click on the plus symbol it will opens a popup page there, we can search what we need to add that button is likely add existing part.
- In that search when we enter the part or part control based on the searched term, we can get the related data. Ex: Here in this I entered a term PC it shows all the related data in the search page and select the which data need to add in and click on Ok the selected data row will appear in the control management.

searchpage.jsp - Google Chrome

localhost:8080/andromeda/search.jsp?name=4738.F817.A124.C462.APN

ANDROMEDA Search...

Search:

Name	Supertype	Type	Description	Createddate	Owner	Email
PC-000001	AmxControl	PartControl	Part controller	2025-09-22 09:50:48.194993	nikhil	nikhil@amx.com
PC-000002	AmxControl	PartControl	controllers	2025-09-22 09:51:03.998385	nikhil	nikhil@amx.com
PC-000003	AmxControl	PartControl	PC3	2025-09-22 09:51:21.089858	nikhil	nikhil@amx.com
PC-000004	AmxControl	PartControl	part desc	2025-09-22 09:51:38.9823	nikhil	nikhil@amx.com
PC-000005	AmxControl	PartControl	Fuel control	2025-09-22 09:58:56.952705	nikhil	nikhil@amx.com
PC-000006	AmxControl	PartControl	Test	2025-09-22 09:59:38	nikhil	nikhil@amx.com
PC-000007	AmxControl	PartControl	Test	2025-09-23 12:04:06.764413	nikhil	nikhil@amx.com
PC-000008	AmxControl	PartControl	test	2025-09-23 12:05:43.482826	nikhil	nikhil@amx.com

Cancel OK

## 11.4 PART SPECIFICATION:

- It is similar to the control management here also we can have create button and add existing part buttons.

400-001-Clutch Transmission State: APPROVED

Part Properties

History

LifeCycle

Control Management

PartSpecification

SpecificationDocument

PartSpecificationTable

Name	Supertype	Type	Description	Createdtime	Owner	Email	Modifiedtime
PASP-000003	Document	PartSpecification	Specification of clutch	2025-09-22 09:53:24.274892	nikhil	nikhil@amx.com	2025-09-22 09:53:24.274892

AddExistingParts

Type	Name	Fromid	ToId	Fromname	Toname	Createddate
PartSpecification	PASP-000003	A74A.FDA9.0C78.2D18.PASP	23B3.9E8D.BFFF.7E72.APN	partSpecification	part	2025-09-22 09:53:24.3265

## 11.5 SPECIFICATION DOCUMENT:

- In this specification document where we can upload the specification document of the part we can add multiple documents for that part and we can also download the uploaded files.

104-001-Washers Fastener State: RELEASED

Part Properties

History

LifeCycle

Control Management

PartSpecification

SpecificationDocument

Uploaded File List

[queries.txt](#)

- When we click on the upload button it will opens the local file system where we can select your file and click on upload it uploads your selected file and that file stores in the database. When we click on the uploaded file it will downloads your file.



## PERSONS:

- In the left panel we may notice the next button after the Parts that is Persons when you click on the persons you may see the number of users who created an account for the accessing of the application.

Persons List					
Username	Firstname	Lastname	Country	Email	Access
<a href="#">ashven1996</a>	Aswath	Venkatesan	United States	aswathv@amx.com	Admin
<a href="#">balamani</a>	Balamani	Thiyagarajan	India	balamanit@amx.com	Leader
<a href="#">hari</a>	Hari	Prasad	India	hariprasadv@amx.com	Leader
<a href="#">narasimhav</a>	Lakshmi	Narasimha	Australia	narasimhav@amx.xom	Reader
<a href="#">nikhil</a>	Nikhilesh	Allikasam	India	nikhil@amx.com	Admin

- Here you can see the list of persons that who are created an account and uses the application. Here we may Username FirstName LastName County Email Access.
- Here also we can see the properties of the person. The person who can have the admin access can able to change the details of the person.
- The admin can have the access to edit and update the details of the person and he can also change the access of the user.
- When we click on edit button it opens the edit panel and we can see the change of access of the users.

**Person Details**

Username	nikhil
First Name	Nikhilesh
Last Name	Allikasam
Country	India
Email	nikhil@amx.com
Access	Admin

nikhil

First Name

Nikhilesh

Last Name

Allikasam

Country

India

Reader

Author

Leader

Admin

Admin

Save

Cancel

## PART CONTROL:

- The part control is like a change action here it is used for the approval process where the user can assignee a person to approve the part control.




- ii. It is similar to the part creation that it has same features like Properties page, Life cycle, history and Control management.

Part Control List

Name	Supertype	Type	Description	Createddate	Owner	Email	Assignee	Currentstate
PC-000001	AmxControl	PartControl	Part controller	9/22/2025, 9:50:48 AM	nikhil	nikhil@amx.com	nikhil	COMPLETED
PC-000002	AmxControl	PartControl	controllers	9/22/2025, 9:51:03 AM	nikhil	nikhil@amx.com	nikhil	INWORK
PC-000003	AmxControl	PartControl	PC3	9/22/2025, 9:51:21 AM	nikhil	nikhil@amx.com	nikhil	COMPLETED
PC-000004	AmxControl	PartControl	part desc	9/22/2025, 9:51:38 AM	nikhil	nikhil@amx.com	nikhil	INWORK
PC-000005	AmxControl	PartControl	Fuel control	9/22/2025, 9:58:56 AM	nikhil	nikhil@amx.com	nikhil	COMPLETED
PC-000006	AmxControl	PartControl	Test	9/22/2025, 9:59:38 AM	nikhil	nikhil@amx.com	nikhil	INWORK
PC-000007	AmxControl	PartControl	Test	9/23/2025, 12:04:06 PM	nikhil	nikhil@amx.com	balamani	INWORK
PC-000008	AmxControl	PartControl	test	9/23/2025, 12:05:43 PM	nikhil	nikhil@amx.com	balamani	INAPPROVAL

- iii. Here we can see the list of part control that are created and we can see the different part controls are created and their current state.
- iv. Once we click on the name field these are hyperlinks it will redirect to properties page there, we can see the properties of the part control.



PC-000001  
PartControl



State: COMPLETED

PC-Properties

History

LifeCycle

Part Management




Name	PC-000001
Owner	nikhil
Supertype	AmxControl
Created Date	2025-09-22 09:50:48.194993
Description	Part controller
Type	PartControl
Assignee	nikhil
Email	nikhil@amx.com
Currentstate	Completed

- v. Here are also we are having the edit button once we click on the button it will opens the edit panel just same like how we did for the part same for the part control also.

HISTORY:

- i. In this history tab we can check the history of the part control like when will the part control is created or any modifications done on this part or any promotion of states.
- ii. We can check the full details of the part control.


**PC-000001**  
PartControl


**State:** COMPLETED

PC-Properties

History

Lifecycle

Part Management

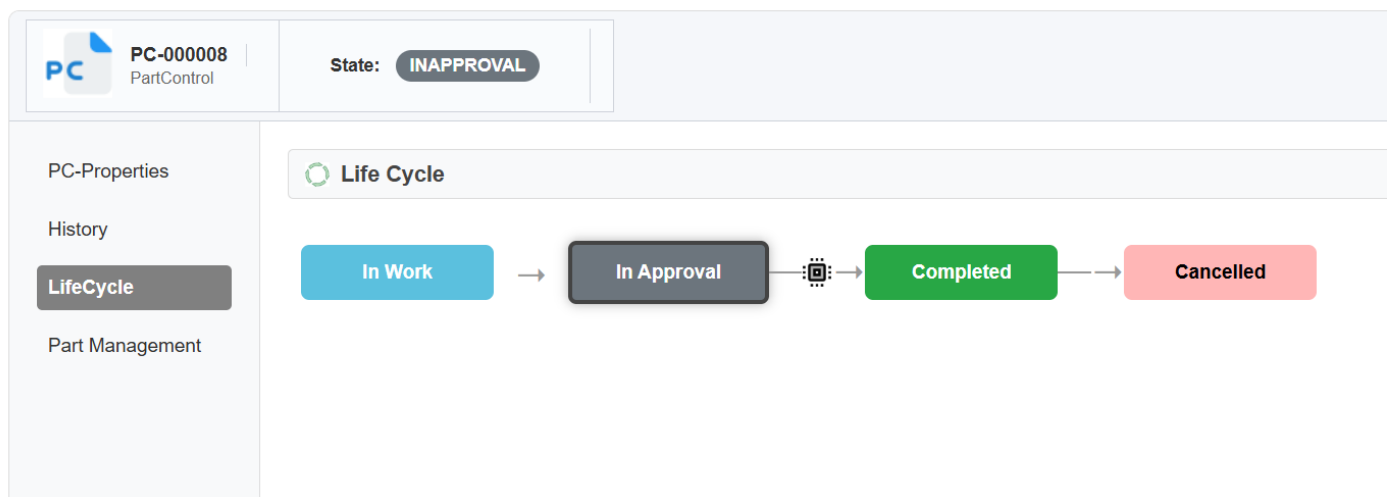

**History Entries**

Created by system at 2025-09-22 09:50:48

Promoted by nikhil to state InApproval


## LIFE CYCLE:

- In life cycle it has four different stages of the part control like InWork InApproval Completed Cancelled.
- Once the state is moved from Inwork to InApproval state a small route is created between the completed state. It is likely a connection between the two states.



- When the state is moved from InWork → InApproval state there we can see the route created between the In Approval → Completed states that look like a connection between the states.
- When you click on the route connection it will open a small popup page there it will show for which part we are creating a route then we can see the details of the part.

AmxRoute Popup - Google Chrome
localhost:8080/andromeda/RoutePopup.jsp?name=5139.E453.3D3C.A6EA.PACO


**ANDROMEDA**

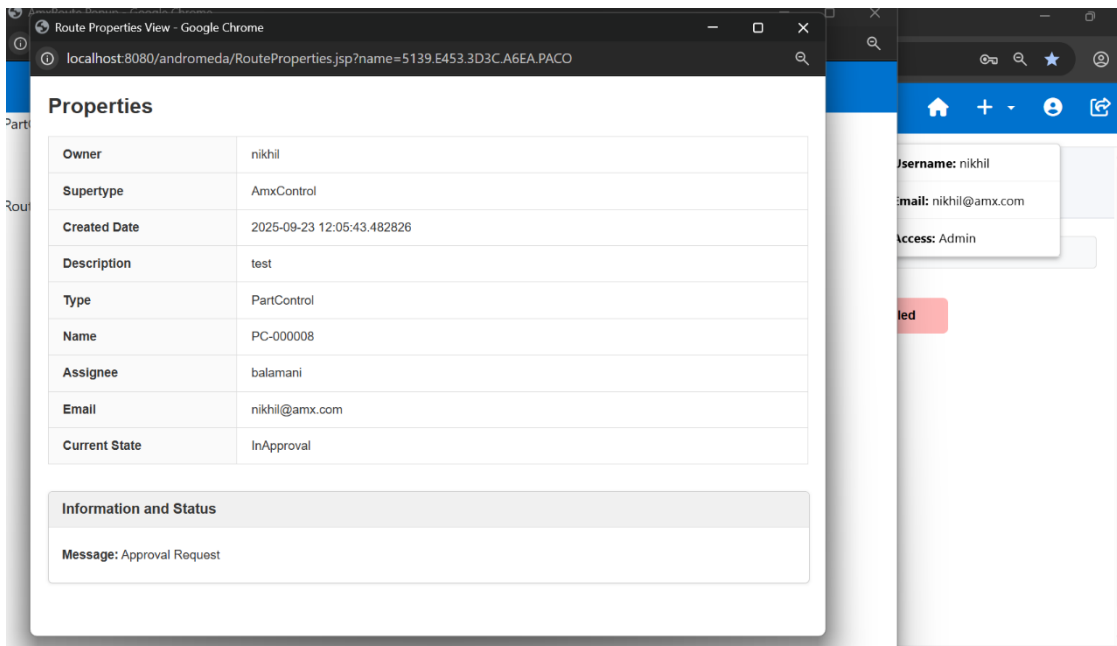
PartControlTable

Name	Supertype
<a href="#">PC-000008</a>	AmxControl

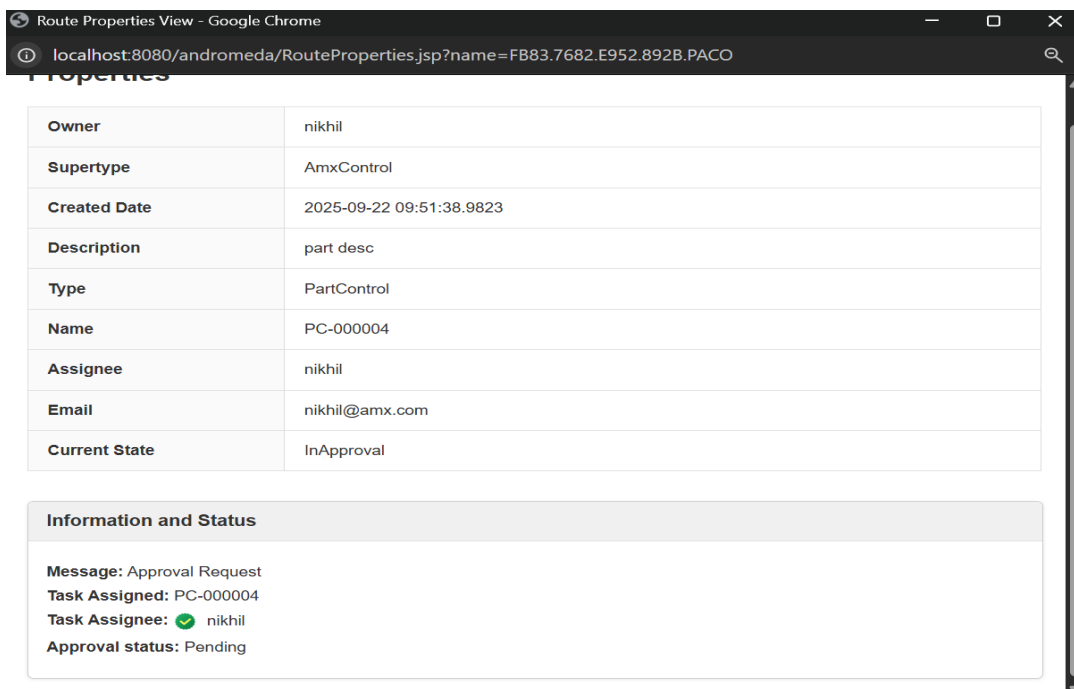
Route Data

Name	Supertype
<a href="#">RT-000004</a>	route

- v. We can see the details of the route of different parts like Part Control table and Route Data. If we click on the Part Control Name field PC-000008 it will open its respective details page and below we can see the assignee for the part.
- vi. For the approval of the part for which the assignee is assigned that person should login and approve for that part.



- vii. Here you can notice that the Properties of the part control below here having Information and Status tab there we can see the details of the approval message here we may notice that the Assignee is “Balamani” and the login user is Nikhil. So, it doesn’t show Approval request.
- viii. If you login with the assignee username we can get the approval request here you can see that the approval request of the part.



- ix. Here we can notice the Information and Status tab there we can have the Approval request like Task Assigned for which part that the task is assigned and the person for the approval process and status of the process. If we click on the green tick button it opens the approval page.

AssigneeApproval - Google Chrome  
localhost:8080/andromeda/AssigneeApproval.jsp?partName=PC-000004&assignee=nikhil

**ANDROMEDA**

Approval Panel

**Part Name:**  
PC-000004

**Task Assignee:**  
nikhil

**Approval State:**  
☐ Approve   ☐ Cancel

**OK** **Cancel**

x. This is the Approval Panel where the assigned person can approve the part. If the assignee person is satisfied with the working of the part and its functionalities the assignee person will click on Approve if it fails the part chooses Cancel state and when person click on ok it approves the state or cancel the part.

AssigneeApproval - Google Chrome  
localhost:8080/andromeda/AssigneeApproval.jsp?partName=PC-000004&assignee=nikhil

**ANDROMEDA**

Approval Panel

**Part Name:**  
PC-000004

**Task Assignee:**  
nikhil

**Approval State:**  
☒ Approve   ☐ Cancel

**OK** **Cancel**

Approval state updated successfully.

xi. Once the assignee approves the state it approves the state and goes to the next state of the part whether it is completed state or some other states.

xii. Once the part control state goes to the completed state, then the part control having any linked parts that parts go to the released state.

## PART MANAGEMENT:

- The part management is similar to the control management which we have done in the previous in the part creation same to the part control also.

- Here also we can create a new part control from the tool bar tab and can also add the existing parts to it.

The screenshot shows a web application interface for PartControlManagementTable. At the top, there's a header with a logo, the ID 'PC-000004', and the state 'COMPLETED'. Below this is a sidebar with navigation options: PC-Properties, History, LifeCycle, and Part Management (which is highlighted). The main area displays a table with the following data:

Name	Supertype	Type	Description	Createddate	Owner	Email	Assignee	Currentstate
PC-000004	AmxControl	PartControl	part desc	2025-09-22 09:51:38.9823	nikhil	nikhil@amx.com	nikhil	Completed

- In this we can see the created part control from the part and can also add the existing part it will opens a search popup page there we can search and get the part or part control that need to add in it.

## ANDROMEDA SEARCH:

- In the home page of the application, we can see the search bar and filters in it. If user enters the term to search it will show the data related to the user search term. By default, the filter will set to All.

The screenshot shows the ANDROMEDA application home page. The search bar at the top contains the text '80'. Below the search bar, there's a table with the following data:

APN	Name	SuperType	Type	Description	CreatedDate	Owner	Email
<a href="#">803-BreakRopers/Drums</a>	803-001-BreakRopers/Drums	Part	BrakingSystem	Test Release	2025-09-23 12:02:23	nikhil	nikhil@apn.com
<a href="#">801-MasterCylinder</a>	801-001-MasterCylinder	Part	BrakingSystem	test	2025-09-24 13:25:23	nikhil	nikhil@apn.com
<a href="#">800-BrakePedal</a>	800-001-BrakePedal	Part	BrakingSystem	Test	2025-09-24 12:49:37	nikhil	nikhil@apn.com
<a href="#">805-AntiLockBreakingSystem</a>	805-001-AntiLockBreakingSystem	Part	BrakingSystem	ABS system	2025-09-22 09:50:19	nikhil	nikhil@apn.com

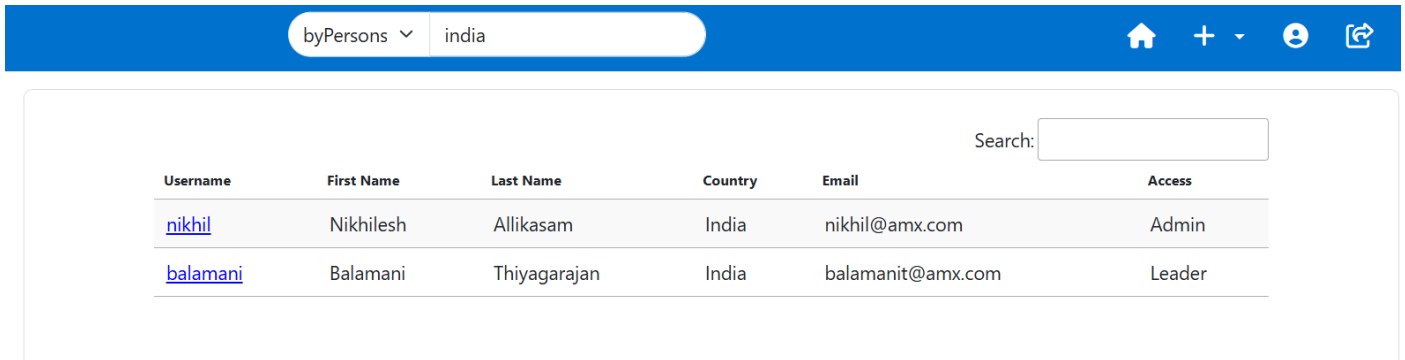
- In this the search box user enters 80 and hit enter and it shows all the data related to the user input search term. When we click on the APN it opens to its respective properties page.
- If we Apply the filters of **byParts** and enter the part name or part number it will show the data of that input.

The screenshot shows the ANDROMEDA application with the filter 'byParts' selected and the search term 'Wash'. The search bar at the top contains the text 'Wash'. Below the search bar, there's a table with the following data:

APN	Name	SuperType	Type	Description
<a href="#">104-Washers</a>	104-001-Washers	Part	Fastener	small

- Here the user selects the filter and enters the search term wash it will show the related part data and here we can also give the part number also based on that we also get the search data

- We can get the data based on the entered search term and the filter that we are using based on the two inputs we can get the data.
- If we apply the filter **byPersons**, it is based on the person data. Here we can get the data of the users who are using this application or else how many persons created an account in this application all the required information can get here. It is simpler way to get the details of the users.



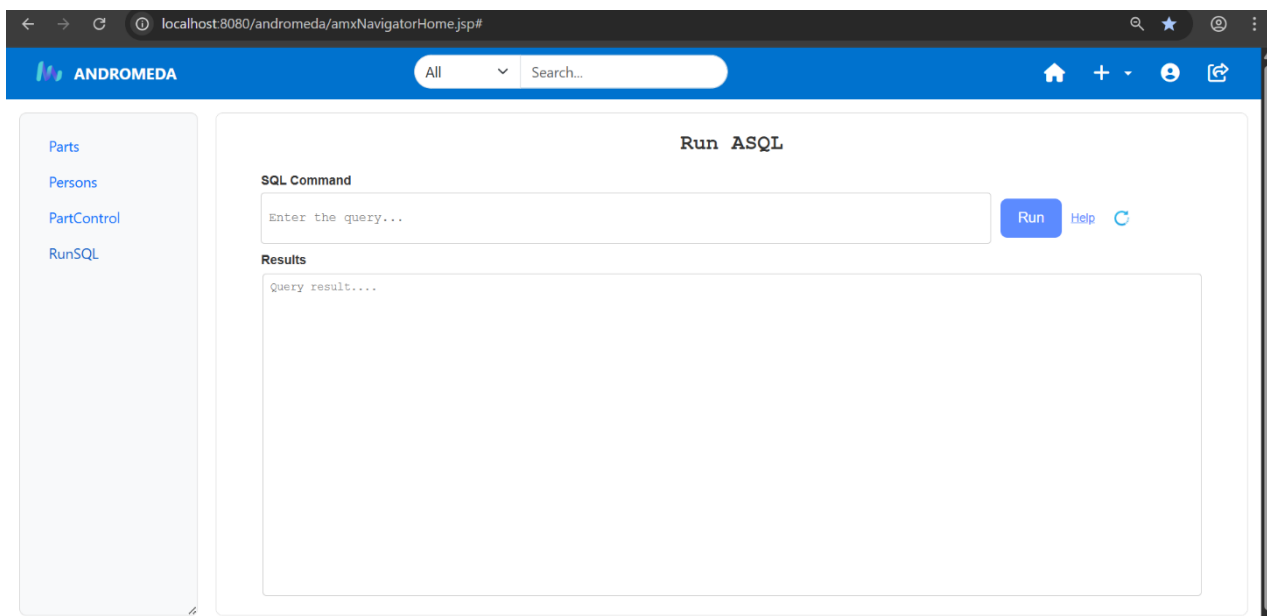
Search:

Username	First Name	Last Name	Country	Email	Access
<a href="#">nikhil</a>	Nikhilesh	Allikasam	India	nikhil@amx.com	Admin
<a href="#">balamani</a>	Balamani	Thiyagarajan	India	balamanit@amx.com	Leader

- Here the user enters the search india based on the country that the user getting the number of users is present in the application. User can enter field that are present in the data.

## RUN ASQL:

- The next run asql it is like a web UI database that we can query the data from the web Ui interface



- Here we need to enter a command of what the data that you are trying to retrieve it. Without going to the database, we can simply enter the query from the command field and the resultant data will appear in the Result box.
- When user enters the query and click on run or hit enter button it will fetches the resultant data based on your query that it will return all the data of the entered command.
- After entering the command in the command field, it loads the data from the database and show the related data.
- From the UI we also perform different operations of the tables data and many like how we are performing in the actual databases like create, select, update, delete, alter, drop, insert all these operations can perform here itself.

All

Search...

Home

+

▼

User

Share

Run ASQL

SQL Command

select \* from amxamxcorepersondata;


Run

Help

Refresh

Results

Query result....



- After loading the data of which the user enters the query command based on that it will return the data in the result box.

Run ASQL

SQL Command

select \* from amxcorepersondata;

Run

Help

Refresh

Results

```
id: 1, email: nikhil@amx.com, username: nikhil, firstname: Nikhilesh, lastname: Allikasam, password: Nikhil@21, confirmpassword: Nikhil@21, country: India, objectid: 994.292.nikhil.PERS, access: Admin, fts_document: 'admin':6 'allikasam':4 'india':5 'nikhil':2 'nikhil@amx.com':1 'nikhilesh':3
id: 5, email: narasimhav@amx.com, username: narasimhav, firstname: Lakshmi, lastname: Narasimha, password: vasi@123, confirmpassword: vasi@123, country: Australia, objectid: 482.290.narasimhav.PERS, access: Reader, fts_document: null
id: 2, email: balamanit@amx.com, username: balamani, firstname: Balamani, lastname: Thiagarajan, password: Test@1234, confirmpassword: Test@1234, country: India, objectid: 803.777.balamani.PERS, access: Leader, fts_document: 'admin':6 'balamani':2,3 'balamanit@amx.com':1 'india':5 'thiyagarajan':4
id: 4, email: aswathv@amx.com, username: ashven1996, firstname: Aswath, lastname: Venkatesan, password: ash@123, confirmpassword: ash@123, country: United States, objectid: 814.927.ashven1996.PERS, access: Admin, fts_document: null
id: 3, email: hariprasadv@amx.com, username: hari, firstname: Hari, lastname: Prasad, password: Test@123, confirmpassword: Test@123, country: India, objectid: 655.175.hari.PERS, access: Leader, fts_document: null
```

- Here we can see the data of the command that the user enters in the command field of which here the full data is shown for the understanding making as it highlights.
- In this we can also have the option help when we click on the help button it opens a small panel on the right side of the page there, we can have the different commands for the user help to retrieve the data.

Run ASQL

Close

SQL Command

Enter the query...

Run

Help

Results

Query result....

SQLQueries

1)View All Data --- SELECT \* FROM table\_name;  
2)Limit the Number of rows --- SELECT \* FROM table\_name LIMIT 5 or 10;  
3)To find any specific row record --- SELECT \* FROM table\_name WHERE column\_name = '';  
4)Search by partial data--- SELECT \* FROM table\_name WHERE column\_name LIKE '%---%';  
5)To find All Parts Owned by a Specific person --- SELECT \* FROM table\_name WHERE column\_name = ' ';  
6)To get count of data in the table - -- SELECT COUNT(\*) FROM table\_name;  
7)To find data which values are missing --- SELECT \* FROM table\_name WHERE column\_name IS NULL;  
8)To get selected records like APN, Name, Owner --- SELECT column\_name1, column\_name3 FROM table\_name;  
9)To keep the data in order like new data first --- SELECT \* FROM table\_name ORDER BY column\_name DESC;  
10)To filter the multiple values (use IN) --- SELECT \* FROM table\_name WHERE column\_name IN ('coder22', 'nikhil16').

- Here we can see the different query commands in the right panel of the home page and a refresh icon also added to refresh your search prompt.