

SALESFORCE-SUPPORTED VIRTUAL INTERNSHIP PROGRAM 2025

**PROJECT: REPLASTIC INNOVATIONS:TRANSFORMING PLASTIC
WASTE INTO SUSTAINABLE SOLUTIONS**

NAME: Y.UMESH REDDY

BRANCH:B.TECH CSE

YEAR:3RD YEAR

COLLEGE NAME:SRM UNIVERSITY,AP

PERSONAL MAIL:umeshreddy_yesireddy@srmap.edu.in

INTERN:SALESFORCE DEVELOPER WITH AGENTBLAZER

TRAILBLAZER:<https://www.salesforce.com/trailblazer/o7oe5r57mcou1fw0f7>

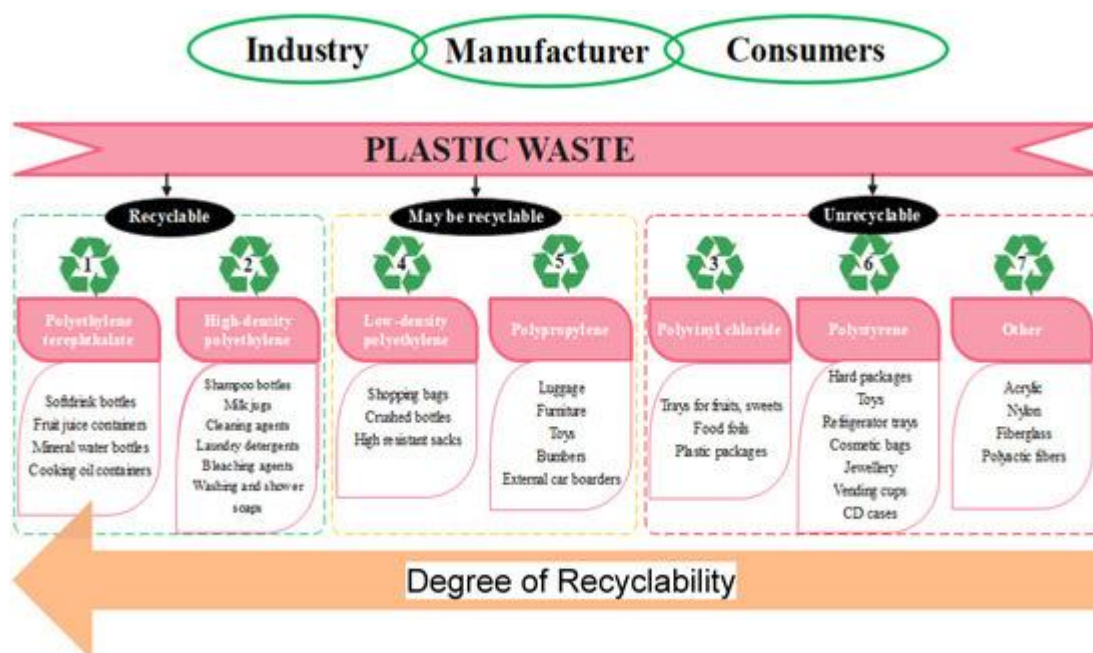
DATE:17/07/2025

Project Overview:

The **Re-Plastic Innovations** project is about finding new and smart ways to reuse plastic waste instead of throwing it away. Plastic pollution is a big problem for the environment, and this project aims to reduce that by turning waste plastic into useful products.

We collected used plastic, cleaned it, and used basic machines to make things like plastic tiles, simple tools, or even items. This helps reduce the amount of plastic going into landfills or oceans.

Our main goal is to show that plastic waste can be turned into something useful and help people understand the importance of recycling and reusing. This project also encourages communities to find local solutions to plastic waste.

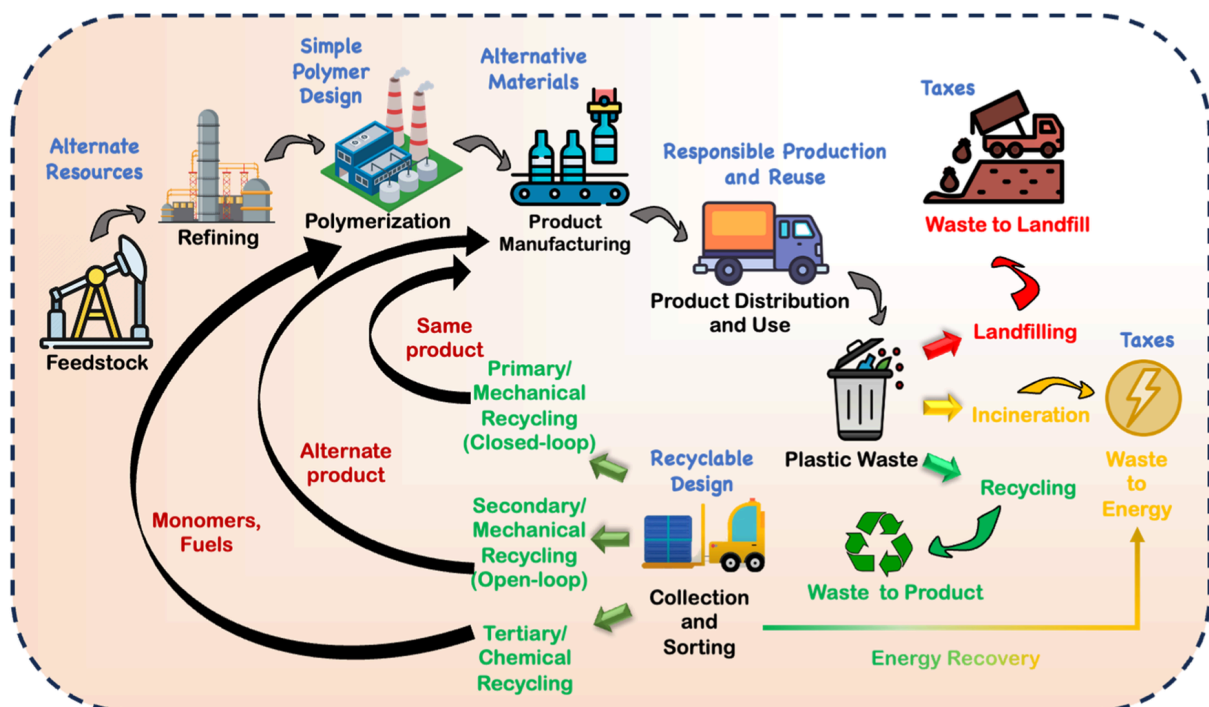


Objectives:

The main objectives for building the Replastic innovations is to improve customer management. By using this CRM, businesses can store and access customer details more easily, track communication history, and provide better support. It also helps in streamlining processes like bookings, follow-ups, and service requests, which reduces manual work and saves time. Overall, the CRM adds value to the business by improving customer satisfaction, increasing efficiency, and helping the company grow through smarter data management and personalized service.

RePlastic Innovations project is to reduce plastic pollution by finding creative and sustainable ways to reuse waste plastic. This project aims to collect, sort, and process used plastic to create useful and eco-friendly products like bricks, tiles, and tools. By using low-cost and locally available methods, the project also hopes to make recycling more accessible to communities.

Another key goal is to raise awareness among people about the harmful effects of plastic waste and the importance of recycling. Through workshops and campaigns, the project encourages public participation and promotes a culture of environmental responsibility. Overall, the objective is to turn plastic waste into valuable resources, protect the environment, and inspire others to take action toward a cleaner and greener future.



Phase 1: Requirement Analysis & Planning

Defining Business:

In the RePlastic Innovations project, the core need is to **reduce plastic waste** and **reuse it in a sustainable way**. Communities, especially in urban and semi-urban areas, face problems such as:

- Overflowing landfills with plastic waste
- Lack of proper plastic recycling facilities
- Limited public awareness about plastic reuse
- Need for low-cost, eco-friendly building materials
- Unemployment and lack of local skill-building projects

Defining Project Scope / Deliverable Objectives:

- **Plastic Waste Collection:** Partnering with local waste collectors and community members to gather plastic.
- **Sorting & Cleaning:** Separating plastic types (HDPE, LDPE, PET, etc.) and preparing them for reuse.
- **Processing Setup:** Using shredding and melting machines to convert plastic into reusable material.
- **Product Manufacturing:** Making eco-products like plastic bricks, tiles, garden pots, or 3D-printed items.
- **Educational Programs:** Conducting workshops and awareness campaigns on plastic reuse.
- **Community Engagement:** Involving local youth and workers for skill development and employment.
- **Low-cost Implementation:** Ensuring that tools and technologies used are affordable and accessible.

Designing Data Model and Security Model:

- **Data Model** - Includes custom objects such as -

<div> <div> <div></div> <div>Setup</div> </div> <div>Home</div> <div>Object Manager</div> </div>					
<div> <div> <div></div> <div>SETUP</div> </div> <div>Object Manager</div> <div>5 Items, Sorted by Label</div> </div> <div> <div>re plas</div> <div>Schema Builder</div> <div>Create</div> </div>					
LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Re Plastic Innovations Order	Re_Plastic_Innovations_Order__c	Custom Object		7/15/2025	✓
Re Plastic Innovations Plastic Waste	Re_Plastic_Innovations_Plastic_Waste__c	Custom Object		7/15/2025	✓
Re Plastic Innovations Recycled Product	Re_Plastic_Innovations_Recycled_Product__c	Custom Object		7/11/2025	✓
Re Plastic Innovations Recycling Center	Re_Plastic_Innovations_Recycling_Center__c	Custom Object		7/11/2025	✓
Re Plastic Innovations Restock Request	Re_Plastic_Innovations_Restock_Request__c	Custom Object		7/11/2025	✓

• **Security Model -**

The security model implements role-based access with profiles for administrators or users,role hierarchy for the objects and sharing rules to select what each roles can see.



Phase 2:Salesforce Development - Backend & Configurations

Setup Environment:

Using the URL: <https://developer.salesforce.com/signup>, I created a developer organisation in Salesforce with my first and last names, email address, role as developer, company name and a customer username for example: yesireddyumesh148@agentforce.com. Verifying email, creating a password, and going to the Salesforce setup page activates the account.

Customization of Objects,Fields,Validation Rules,Automation(Workflow Rules,Process Builder,Flows,Approval Process):

Objects & Relationships:

- **Re Plastic Innovations Order:** Stores Order details,related to product_c and order_c.
- **Re Plastic Innovations Plastic Waste:** Stores Plastic waste details,related to order_c.
- **Re Plastic Innovations Recycled Product:** Stores Recycled product details,related to Recycled_Product_c and product_c.
- **Re Plastic Innovations Recycling Center:** Stores Recycling centres,related to location_c and product_c.
- **Re Plastic Innovations Restock Request:** Storing Stock Requests,related to order_c and product_c.

Key Fields For Each Object -

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

Re Plastic Innovations Order

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Fields & Relationships

11 Items, Sorted by Field Label

Q Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

Account	Account__c	Lookup(Account)	✓	
Created By	CreatedById	Lookup(User)		
Delivery Date	Delivery_Date__c	Date		
Last Modified By	LastModifiedById	Lookup(User)		
Name	Name__c	Auto Number		
Owner	OwnerId	Lookup(User,Group)	✓	
Product	Product__c	Text(18)		
Quantity	Quantity__c	Number(16, 2)		
Re Plastic Innovations Order Name	Name	Text(80)	✓	
Re Plastic Innovations Recycled Product	Re_Plastic_Innovations_Recycled_Product__c	Lookup(Re Plastic Innovations Recycled Product)	✓	

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

Re Plastic Innovations Plastic Waste

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Fields & Relationships

11 Items, Sorted by Field Label

Q Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Collection Date	Collection_Date__c	Date		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Location	Location__c	Geolocation		
Name	Name__c	Text(18)		
Owner	OwnerId	Lookup(User,Group)	✓	
Plastic Waste Name	Name	Auto Number	✓	
Re Plastic Innovations Recycling Center	Re_Plastic_Innovations_Recycling_Center__c	Lookup(Re Plastic Innovations Recycling Center)	✓	
Status	Status__c	Picklist		

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

Re Plastic Innovations Recycled Product

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Fields & Relationships

10 Items, Sorted by Field Label

Q Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Name	Name__c	Text(18)		
Owner	OwnerId	Lookup(User,Group)	✓	
Price	Price__c	Currency(16, 2)		
Re Plastic Innovations Recycled Product Name	Name	Text(80)	✓	
Recycled_Product	Recycled_Product__c	Text(18)		
Stock Level	Stock_Level__c	Number(16, 2)		
Stock Low On Product	Stock_Low_On_Product__c	Formula (Text)		

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

Re Plastic Innovations Recycling Center

Details

Fields & Relationships

7 Items, Sorted by Field Label

Q, Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Capacity	Capacity__c	Number(16, 2)		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Location	Location__c	Geolocation		
Name	Name__c	Text(18)		
Owner	OwnerId	Lookup(User,Group)		✓
Re Plastic Innovations Recycling Center	Name	Text(80)		✓

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

Re Plastic Innovations Restock Request

Details

Fields & Relationships

9 Items, Sorted by Field Label

Q, Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Name	Name__c	Auto Number		
Owner	OwnerId	Lookup(User,Group)		✓
Product	Product__c	Text(18)		
Re Plastic Innovations Recycled Product	Re_Plastic_Innovations_Recycled_Product__c	Lookup(Re Plastic Innovations Recycled Product)		✓
Re Plastic Innovations Restock Request Name	Name	Text(80)		✓
Requested Quantity	Requested_Quantity__c	Number(16, 2)		
Status	Status__c	Picklist		

Validation Rules -

Sales
Home
Opportunities
Leads
Tasks
Files
Accounts
Contacts
Campaigns
Dashboards
Reports
Chatter
Re Plastic Innovations Orders
More

Re Plastic Innovations Order
Orderid-0006

New Contact
Edit
New Opportunity

Related
Details

Re Plastic Innovations Order Name
Orderid-0006

Owner
Umesh Reddy

Name
RPIPW-0002

Account

Re Plastic Innovations Recycled Product
Plastic Order Record

Quantity
150.00

Delivery Date
7/12/2025

Product

Recycled Product

Created By
Umesh Reddy, 7/12/2025, 8:55 PM

Last Modified By
Umesh Reddy, 7/12/2025, 8:55 PM

Sales
Home
Opportunities
Leads
Tasks
Files
Accounts
Contacts
Campaigns
Dashboards
Reports
Chatter
Re Plastic Innovations Orders
More

Re Plastic Innovations Order
Requestid-0005

New Contact
Edit
New Opportunity

Related
Details

Re Plastic Innovations Order Name
Requestid-0005

Owner
Umesh Reddy

Name
RPIPW-0001

Account

Re Plastic Innovations Recycled Product
Test Task Record

Quantity
1.00

Delivery Date
7/17/2025

Product

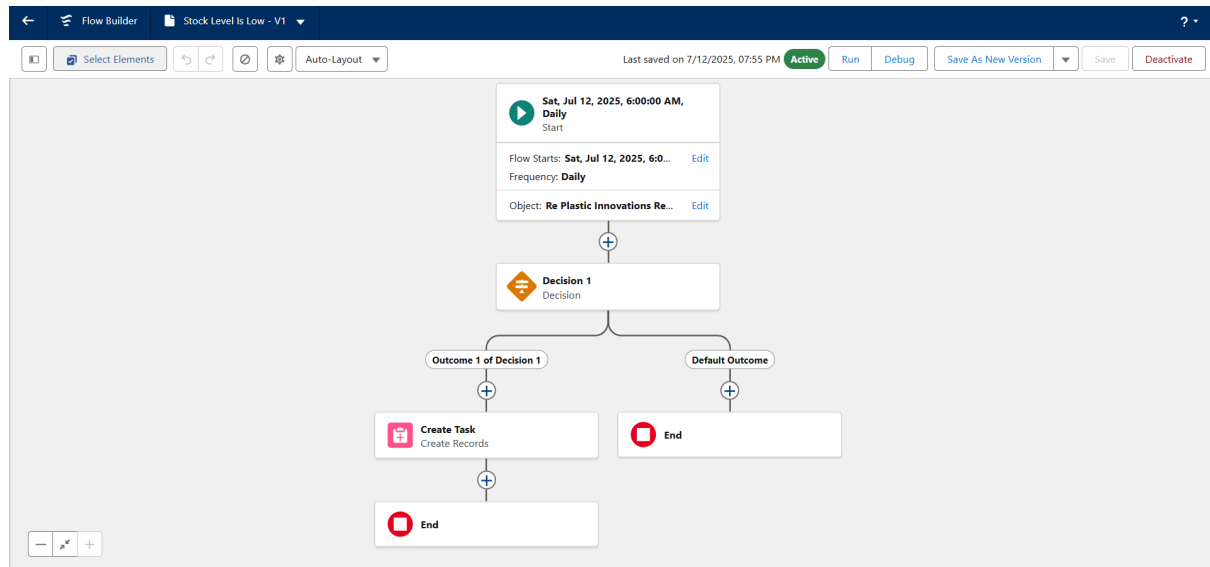
Recycled Product

Created By
Umesh Reddy, 7/12/2025, 7:10 AM

Last Modified By
Umesh Reddy, 7/12/2025, 8:58 PM

Automation -

1. Flow Builder :-



Apex Classes & Triggers:-

- Apex Class - Inventory Manager:

```

public class InventoryManager {

    // Method to process stock reduction after an order

    public static void
    processOrderStock(List<Re_Plastic_Innovations_Order__c> orderList) {

        Set<Id> productIds = new Set<Id>();

        for (Re_Plastic_Innovations_Order__c order : orderList) {

            productIds.add(order.Recycled_Product__c);

        }

        // Query product stock levels

        Map<Id, Re_Plastic_Innovations_Recycled_Product__c> productMap =
        new Map<Id, Re_Plastic_Innovations_Recycled_Product__c>(

```

```
[SELECT Id, Stock_Level__c, Threshold__c FROM  
Re_Plastic_Innovations_Recycled_Product__c WHERE Id IN :productIds]
```

```
);
```

```
List<Re_Plastic_Innovations_Recycled_Product__c> productsToUpdate  
= new List<Re_Plastic_Innovations_Recycled_Product__c>();
```

```
List<Re_Plastic_Innovations_Restock_Request__c> restockRequests =  
new List<Re_Plastic_Innovations_Restock_Request__c>();
```

```
for (Re_Plastic_Innovations_Order__c order : orderList) {
```

```
    Re_Plastic_Innovations_Recycled_Product__c product =  
    productMap.get(order.Recycled_Product__c);
```

```
    if (product != null) {
```

```
        if (product.Stock_Level__c >= order.Quantity__c) {
```

```
            product.Stock_Level__c -= order.Quantity__c;
```

```
            productsToUpdate.add(product);
```

```
        } else {
```

```
            // Create a Restock Request if stock is insufficient (without setting  
            Name)
```

```
            restockRequests.add(new  
            Re_Plastic_Innovations_Restock_Request__c(
```

```
                Product__c = product.Id,
```

```
                Requested_Quantity__c = order.Quantity__c -  
                product.Stock_Level__c,
```

```
                Status__c = 'Pending'
```

```
        ));  
    }  
}  
}
```

```
if (!productsToUpdate.isEmpty()) {  
    update productsToUpdate;  
}
```

```
if (!restockRequests.isEmpty()) {  
    insert restockRequests;  
}  
}
```

// Method to process stock increase after restock approval

```
public static void  
processRestockApproval(List<Re_Plastic_Innovations_Restock_Request__c  
> restockList) {  
  
    Set<Id> productIds = new Set<Id>();  
  
    for (Re_Plastic_Innovations_Restock_Request__c restock : restockList) {  
  
        if (restock.Status__c == 'Approved') {  
  
            productIds.add(restock.Product__c);  
  
        }  
  
    }  
  
}
```

```
}
```

```
Map<Id, Re_Plastic_Innovations_Recycled_Product__c> productMap =  
new Map<Id, Re_Plastic_Innovations_Recycled_Product__c>(  

```

```
[SELECT Id, Stock_Level__c FROM  
Re_Plastic_Innovations_Recycled_Product__c WHERE Id IN :productIds]
```

```
);
```

```
List<Re_Plastic_Innovations_Recycled_Product__c> productsToUpdate  
= new List<Re_Plastic_Innovations_Recycled_Product__c>();
```

```
for (Re_Plastic_Innovations_Restock_Request__c restock : restockList) {
```

```
    if (productMap.containsKey(restock.Product__c)) {
```

```
        Re_Plastic_Innovations_Recycled_Product__c product =  
productMap.get(restock.Product__c);
```

```
        product.Stock_Level__c += restock.Requested_Quantity__c;
```

```
        productsToUpdate.add(product);
```

```
    }
```

```
}
```

```
if (!productsToUpdate.isEmpty()) {
```

```
    update productsToUpdate;
```

```
}
```

```
}
```

```
}
```

- **Apex Trigger - UpdateStockAfterOrder:**

```
trigger UpdateStockAfterOrder on Re_Plastic_Innovations_Order__c (after insert) {
```

```
    if (Trigger.isAfter && Trigger.isInsert) {
```

```
        InventoryManager.processOrderStock(Trigger.new);
```

```
    }
```

```
}
```

- **Apex Trigger - UpdateStockAfterRestockApproval:**

```
trigger UpdateStockAfterRestockApproval on
Re_Plastic_Innovations_Restock_Request__c (after update) {
    List<Re_Plastic_Innovations_Restock_Request__c> approvedRestocks =
    new List<Re_Plastic_Innovations_Restock_Request__c>();
    for (Re_Plastic_Innovations_Restock_Request__c restock : Trigger.new) {
        if (restock.Status__c == 'Approved' &&
            Trigger.oldMap.get(restock.Id).Status__c != 'Approved') {
            approvedRestocks.add(restock);
        }
    }
    if (!approvedRestocks.isEmpty()) {
        InventoryManager.processRestockApproval(approvedRestocks);
    }
}
```

- **Apex Class - EmailNotificationHelper:**

```
public class EmailNotificationHelper {
    public static void
    sendRestockNotification(List<Re_Plastic_Innovations_Restock_Request__c>
    restockRequests) {
        List<Messaging.SingleEmailMessage> emails = new
        List<Messaging.SingleEmailMessage>();
```

```

for (Re_Plastic_Innovations_Restock_Request__c restock :
restockRequests) {
    Messaging.SingleEmailMessage email = new
Messaging.SingleEmailMessage();
    email.setSubject('Restock Request Approved');
    email.setToAddresses(new
List<String>{'mabdulrahaman066@gmail.com'});
    email.setPlainTextBody('The restock request for product ' +
restock.Product__c + ' has been approved. Please proceed with stock
update.');
```

```

    emails.add(email);
}
if (!emails.isEmpty()) {
    Messaging.sendEmail(emails);
}
}
}
}

```

- **Apex Class - InventoryManagerTest:**

```
@isTest
```

```
public class InventoryManagerTest {
```

```
    @testSetup
```

```
    static void setupTestData() {
```

```
        // Create a product with initial stock of 50
```

```
        Re_Plastic_Innovations_Recycled_Product__c product = new
Re_Plastic_Innovations_Recycled_Product__c(
```

```
            Stock_Level__c = 50,
```

```
            Threshold__c = 10
```

```
        );
```

```
        insert product;
```

```
        // Create orders
```

```

        List<Re_Plastic_Innovations_Order__c> orders = new
List<Re_Plastic_Innovations_Order__c>{

            new Re_Plastic_Innovations_Order__c(Recycled_Product__c =
product.Id, Quantity__c = 20), // Enough stock

            new Re_Plastic_Innovations_Order__c(Recycled_Product__c =
product.Id, Quantity__c = 40) // Not enough stock

        };

        insert orders;

    }

    @isTest

    static void testProcessOrderStock() {

        List<Re_Plastic_Innovations_Order__c> orders = [SELECT Id,
Recycled_Product__c, Quantity__c FROM
Re_Plastic_Innovations_Order__c];

        Test.startTest();

        InventoryManager.processOrderStock(orders);

        Test.stopTest();

        // Check updated stock

        Re_Plastic_Innovations_Recycled_Product__c product = [SELECT
Stock_Level__c FROM Re_Plastic_Innovations_Recycled_Product__c];

        System.assertEquals(10, product.Stock_Level__c, 'Stock should reduce
correctly');

        // Check restock request (Only 1 should be created)

        List<Re_Plastic_Innovations_Restock_Request__c> restockRequests =
[SELECT Id FROM Re_Plastic_Innovations_Restock_Request__c WHERE
Status__c = 'Pending'];

```



```

        System.assertEquals(2, restockRequests.size(), 'Only one restock
request should be created');

    }

    @isTest

    static void testProcessRestockApproval() {

        // Fetch restock requests and approve them

        List<Re_Plastic_Innovations_Restock_Request__c> restocks = [SELECT
Id, Product__c, Requested_Quantity__c FROM
Re_Plastic_Innovations_Restock_Request__c];

        for (Re_Plastic_Innovations_Restock_Request__c req : restocks) {

            req.Status__c = 'Approved';

        }

        update restocks;

        // Calculate expected stock level before processing restock

        Re_Plastic_Innovations_Recycled_Product__c productBefore = [SELECT
Stock_Level__c FROM Re_Plastic_Innovations_Recycled_Product__c];

        Decimal initialStock = productBefore.Stock_Level__c;

        // Calculate total requested quantity for approved restocks

        Decimal totalRestockQuantity = 0;

        for (Re_Plastic_Innovations_Restock_Request__c req : restocks) {

            totalRestockQuantity += req.Requested_Quantity__c;

        }

        // Process restock approvals

        Test.startTest();

```

```
InventoryManager.processRestockApproval(restocks);

Test.stopTest();

// Fetch updated stock

Re_Plastic_Innovations_Recycled_Product__c productAfter = [SELECT
Stock_Level__c FROM Re_Plastic_Innovations_Recycled_Product__c];

// Expected stock = Initial stock + Total approved restock quantity

Decimal expectedStock = initialStock + totalRestockQuantity;

System.assertEquals(expectedStock, productAfter.Stock_Level__c, 'Stock
should increase correctly after restock approval');

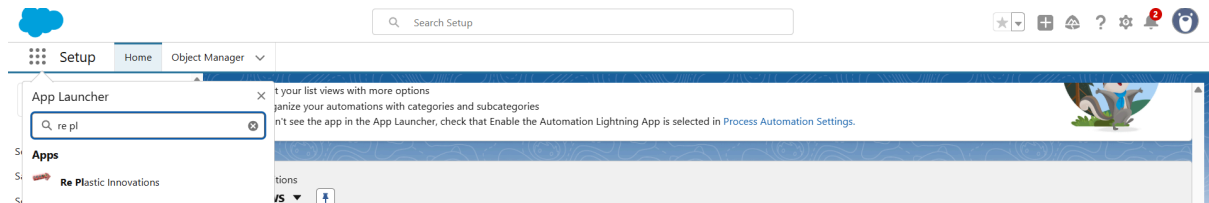
}

}
```

Phase 3: UI/UX Development & Customization

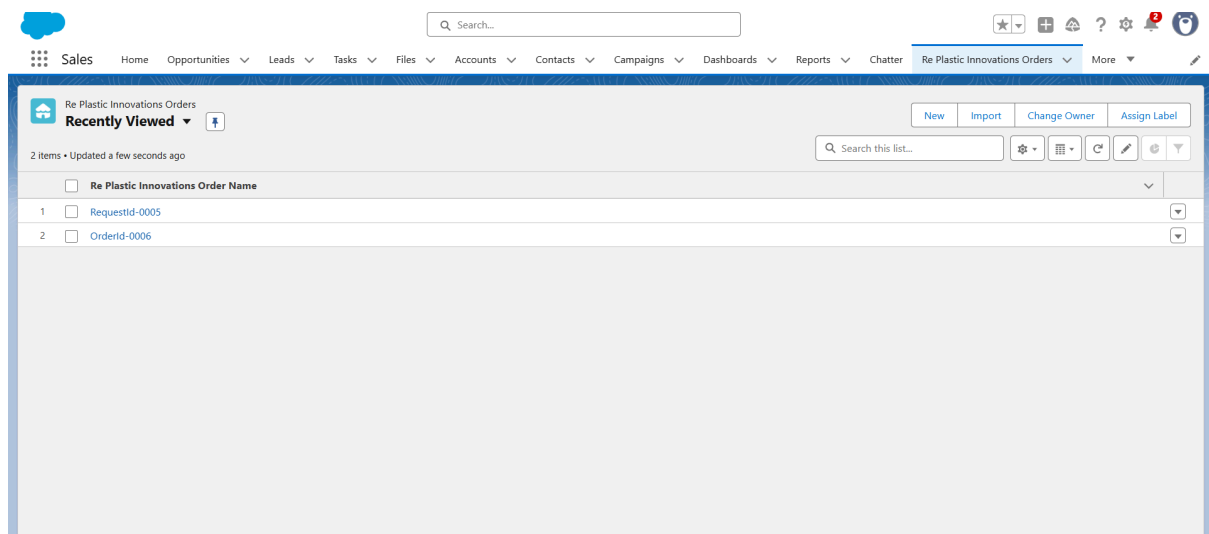
Lightening App Setup through App Manager:


Created a Lightning App named “Re Plastic Innovations” via the App Manager in Setup, with a meaningful description. I have given a best image in the upload section. I have assigned System Administrator Profile for access.



Page layouts and Dynamic Forms:

Designed page layouts for the three objects called Re plastic Innovations Orders, Re plastic Innovations Recycled Products and Re plastic Innovations Restock Requests. Forms to enhance field visibility and user interaction based on record type and user role.





Search...

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⚙️

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👤

SalesHomeOpportunitiesLeadsTasksFilesAccountsContactsCampaignsDashboardsReportsChatterRe Plastic Innovations Recycled...More

Re Plastic Innovations Recycled Products

Recently Viewed

NewImportChange OwnerAssign Label

Search this list...

⚙️

📄

🔄


✎

🗑

⌵

2 items • Updated a few seconds ago

	<input type="checkbox"/> Re Plastic Innovations Recycled Product Name	
1	<input type="checkbox"/> Test Task Record	⌵
2	<input type="checkbox"/> Plastic Order Record	⌵



Search...

★

+

🔄


?

⚙️

🔔

👤

SalesHomeOpportunitiesLeadsTasksFilesAccountsContactsCampaignsDashboardsReportsChatterRe Plastic Innovations Restock ...More

Re Plastic Innovations Restock Requests

Recently Viewed

NewImportChange OwnerAssign Label

Search this list...

⚙️

📄

🔄

✎

🗑

⌵

1 item • Updated 2 minutes ago

	<input type="checkbox"/> Re Plastic Innovations Restock Request Name	
1	<input type="checkbox"/> Request Id-0005	⌵

Phase 4:Data Migration,Testing,Security

Sample Records Created:

Test Task Record with Stock Level and Threshold value:

The screenshot displays a CRM interface with a top navigation bar containing a search bar and various icons. Below the navigation bar, a sidebar on the left lists menu items: Sales, Home, Opportunities, Leads, Tasks, Files, Accounts, Contacts, Campaigns, Dashboards, Reports, Chatter, and a dropdown for 'Re Plastic Innovations Recycled...'. The main content area is titled 'Re Plastic Innovations Recycled Product' and 'Test Task Record'. It features a 'Details' tab with a form containing the following fields: 'Re Plastic Innovations Recycled Product Name' (Test Task Record), 'Owner' (Umesh Reddy), 'Name' (Test Task Record), 'Stock Level' (200.00), 'Threshold' (100.00), 'Price' (\$900,000.00), 'Stock Low On Product' (Sufficient Stock), and 'Recycled_Product'. The form also shows 'Created By' (Umesh Reddy, 7/12/2025, 7:02 AM) and 'Last Modified By' (Umesh Reddy, 7/12/2025, 7:03 AM). A 'To Do List' is visible at the bottom left.

Field	Value
Re Plastic Innovations Recycled Product Name	Test Task Record
Owner	Umesh Reddy
Name	Test Task Record
Stock Level	200.00
Threshold	100.00
Price	\$900,000.00
Stock Low On Product	Sufficient Stock
Recycled_Product	
Created By	Umesh Reddy, 7/12/2025, 7:02 AM
Last Modified By	Umesh Reddy, 7/12/2025, 7:03 AM

Plastic Order Record with Stock Level and Threshold value:

The screenshot displays a CRM interface similar to the one above, but for a 'Plastic Order Record'. The main content area is titled 'Re Plastic Innovations Recycled Product' and 'Plastic Order Record'. The 'Details' tab shows the following fields: 'Re Plastic Innovations Recycled Product Name' (Plastic Order Record), 'Owner' (Umesh Reddy), 'Name' (Plastic Order Record), 'Stock Level' (150.00), 'Threshold' (100.00), 'Price' (\$900,000.00), 'Stock Low On Product' (Sufficient Stock), and 'Recycled_Product'. The form also shows 'Created By' (Umesh Reddy, 7/12/2025, 8:52 PM) and 'Last Modified By' (Umesh Reddy, 7/12/2025, 9:01 PM). A 'To Do List' is visible at the bottom left.

Field	Value
Re Plastic Innovations Recycled Product Name	Plastic Order Record
Owner	Umesh Reddy
Name	Plastic Order Record
Stock Level	150.00
Threshold	100.00
Price	\$900,000.00
Stock Low On Product	Sufficient Stock
Recycled_Product	
Created By	Umesh Reddy, 7/12/2025, 8:52 PM
Last Modified By	Umesh Reddy, 7/12/2025, 9:01 PM

Testing:-



Search Setup



Setup

Home

Object Manager

test

Email

Test Deliverability

Custom Code

Apex Test Execution

Apex Test History

Scale

Scale Test

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SETUP

Apex Test Execution

Apex Test Results

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Before deploying Apex classes and triggers, you must write unit tests that cover 75% of the total Apex code in your organization. All test results for your organization display in the default view for 30 days unless cleared.



All

[Create New View](#)

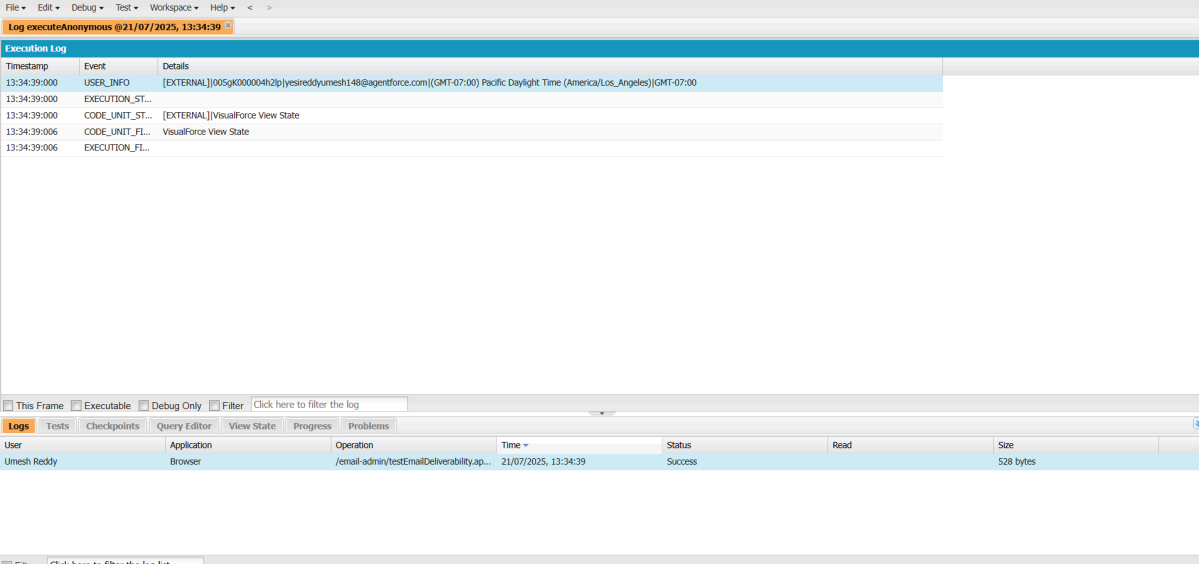


Clear Test Data

Ac...	Name	Method Name	Time Started	Pass/Fail	Error Message	Run Time
View	InventorManagerTest	setupTestData	7/17/2025, 7:26 PM	Pass		267
View	InventorManagerTest	testProcessOrderStock	7/17/2025, 7:26 PM	Pass		74
View	InventorManagerTest	testProcessRestockApproval	7/17/2025, 7:26 PM	Pass		97
View	InventorManagerTest	setupTestData	7/17/2025, 7:31 PM	Pass		184
View	InventorManagerTest	testProcessOrderStock	7/17/2025, 7:31 PM	Pass		62
View	InventorManagerTest	testProcessRestockApproval	7/17/2025, 7:31 PM	Pass		73

Phase 5 - Deployment Maintenance & Future Scope

Use Apex logs for monitoring - Updates to flows or triggers via Setup



The screenshot shows the Salesforce Apex Log viewer interface. At the top, there's a menu bar with 'File', 'Edit', 'Debug', 'Test', 'Workspace', and 'Help'. Below the menu, a tab indicates 'Log executeAnonymous @21/07/2025, 13:34:39'. The main area is titled 'Execution Log' and contains a table with columns: Timestamp, Event, and Details. The table lists several events including USER_INFO, EXECUTION_START, CODE_UNIT_START, CODE_UNIT_FINISH, and EXECUTION_FINISH. Below the log table, there are filters for 'This Frame', 'Executable', 'Debug Only', and a 'Filter' button. A 'Click here to filter the log' link is also present. At the bottom, there's a table with columns: User, Application, Operation, Time, Status, Read, and Size. The table shows a single entry for 'Umesh Reddy' using the 'Browser' application, performing an operation on '/email-admin/testEmailDeliverability.ap...'. The status is 'Success' and the size is '528 bytes'.

Timestamp	Event	Details
13:34:39:000	USER_INFO	[EXTERNAL][005gk000004h2lp]yesreddy.umesht48@agentforce.com[(GMT-07:00) Pacific Daylight Time (America/Los_Angeles)](GMT-07:00)
13:34:39:000	EXECUTION_START	
13:34:39:000	CODE_UNIT_START	[EXTERNAL][VisualForce View State
13:34:39:006	CODE_UNIT_FINISH	VisualForce View State
13:34:39:006	EXECUTION_FINISH	

User	Application	Operation	Time	Status	Read	Size
Umesh Reddy	Browser	/email-admin/testEmailDeliverability.ap...	21/07/2025, 13:34:39	Success		528 bytes

Future Scope:-

- **Scaling Up:** Expanding the project to more cities and rural areas to collect and reuse plastic on a larger scale.
- **Advanced Recycling Machines:** Introducing better machines for shredding, melting, and 3D printing using recycled plastic.
- **Mobile App Integration:** Creating a mobile app for tracking collections, scheduling workshops, and involving more volunteers.
- **Partnerships with Local Governments and NGOs:** Working with municipal bodies to support waste management and recycling efforts.
- **Educational Programs:** Adding regular training sessions in schools and colleges to spread awareness and skills related to recycling.
- **AI-Based Sorting:** Using AI and smart sensors to automatically sort different types of plastic for better efficiency.

Conclusion:

The **RePlastic Innovations** project successfully shows how plastic waste can be reused in a smart and sustainable way. By building a system to collect, process, and convert plastic into useful products, we help reduce pollution and promote eco-friendly practices. Using Salesforce, we were able to track collections, manage volunteers, and automate many tasks to make the process smoother. This project not only supports the environment but also encourages community involvement and awareness. With regular updates and proper maintenance, the system can continue to grow and create a positive impact.

Using Waste Plastic for Road Construction Mandatory Now

Move to overcome growing problem of plastic waste disposal

Rajat.Arora@timesgroup.com

New Delhi: The government has made it mandatory for road developers to use waste plastic along with bituminous mixes for road construction to overcome the growing problem of disposal of plastic waste in India's urban centres.

Road developers will now have to use waste plastic along with hot mixes for constructing bitumen roads within 50 km of periphery of any city that has a population of over five lakh. In recently released guidelines for developers, the government said that in case of non-availability of waste plastic, the developer has to seek the road transport & highways ministry's approval for constructing only bitumen roads.

"Urban local bodies, which are usually short of financial resources, can make money by selling the plastic waste generated by cities to road developers. They can sign memorandums of understanding with the road construction companies," a senior government official told ET.

India generates 56 lakh tonne of plastic waste annually. As per a study by the Central Pollution Control Board, 60 large cities in India generate over 15,000 tonne of plastic waste every day. Delhi generates close to

7,000 tonne of waste every day, of which over 10% is pure plastic but cannot be disposed even by waste-to-energy plants because of environmental reasons.

In an observation earlier this year, the Supreme Court had said that the country was sitting on a plastic time bomb.

Plastic will add to the longevity of roads by making them water resistant and also increasing the resistance of roads to change in weather.

The government expects this measure to bring down the cost as well for road developers, from about ₹10 crore for one km of road length at present.

"The cost factor is yet to be analysed, but it will be slightly less than 100% bitumen," the official said.

The ministry will also encourage state governments and rural development ministry to make use of plastic waste mandatory in construction of roads.

"The same technology can also be used for construction of rural roads as it will enhance their quality as well as longevity. These roads can have a plastic coating mixed with bitumen," the official said.



Developer has to seek ministry nod for bitumen-only roads in case waste plastic is not available

Economic Times 26.11.2015

THANK YOU

