

# Application Architecture

## Application Components :



### personas

- ♦ Identify who will interact with the application and the key activities that each persona needs to perform.
- ♦ Defining the activities for each persona will help you define groups, which are used to configure security in an application.



### data design & records

- Users interact with data using records
- An integrated view of data collected from various sources, which users can take action on
- Design mockups to present data
- Plan how records will work together



## process models

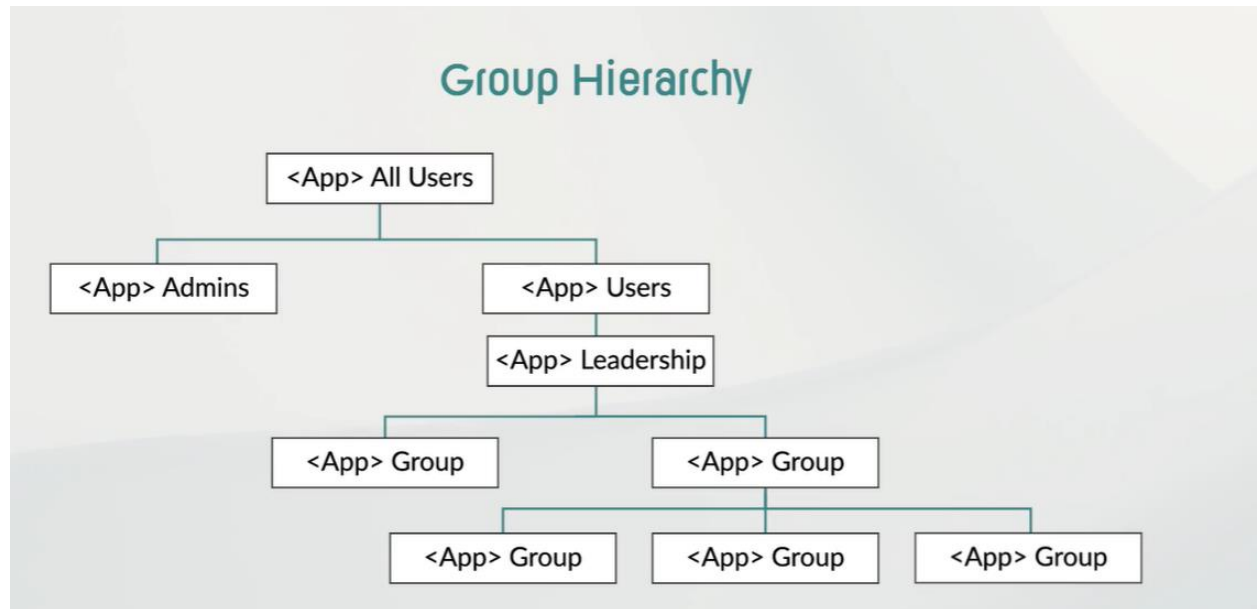
- Use Appian's Process Modeler to draw your business processes
- Define what happens during each step
- Process models drive actions performed in the application










## reports

- Reports visualize data aggregated across records
- Identify data required for reports
- Determine how data will be collected and calculated
- Finalize report planning before finalizing data structure

## Personas and Groups :



**Permissions Matrix**

	 Group 1	 Group 2	 Group 3
 Action 1	✓	✓	✗
 Action 2	✗	✓	✓
 Record 1	✓	✓	✓
 Record 2	✓	✗	✗

## Data design and Records :

Vehicle Data Type	
Field Name	Acceptable Value
vehicleID	INTEGER
category	TEXT
make	TEXT
model	TEXT
color	TEXT
mileage	INTEGER
year	INTEGER
VIN	TEXT
condition	TEXT
status	TEXT
lastMaintenanceDate	DATE
nextMaintenanceDate	DATE
image	DOCUMENT
addedBy	TEXT
dateAdded	DATE
lastModifiedBy	TEXT
lastModifiedDate	DATETIME

Maintenance Data Type	
Field Name	Acceptable Value
maintenanceRequestID	INTEGER
vehicleID	INTEGER
maintenanceRequestDate	DATE
maintenanceRequester	TEXT
maintenanceScheduledService	BOOLEAN
maintenanceIssue	TEXT
maintenanceStatus	TEXT
maintenanceStartDate	DATE
maintenanceEstimatedCompleteDate	DATE
maintenanceActualCompleteDate	DATE
maintenanceDuration	DECIMAL
maintenanceCost	DECIMAL
maintenanceMechanic	TEXT
maintenanceRequestReviewStatus	TEXT
maintenanceReviewer	TEXT
maintenanceReviewDate	DATE
maintenanceLastModifiedBy	TEXT
maintenanceLastModifiedDate	DATETIME

**Record :** An actionable view of data collected from the various sources.

**Summary View:** It provides more details about a record. Users can perform actions on specific records through summary view.

**List View :** text, icons, progress bars, images.

# Process Models :

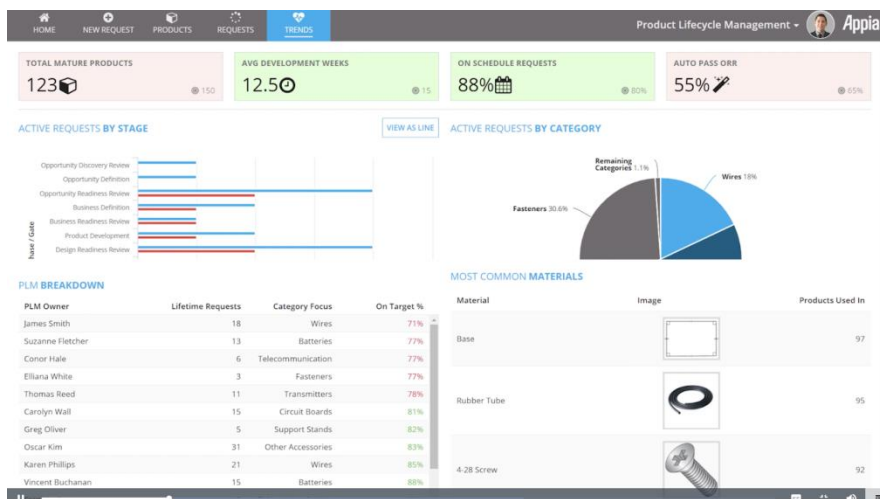
## Activities performed using Process Models:

- Query data from a record type, data store or an external system or service.
- Assign task to users/groups.
- Perform calculations on data.
- Perform activities such as send an email or generate a document.

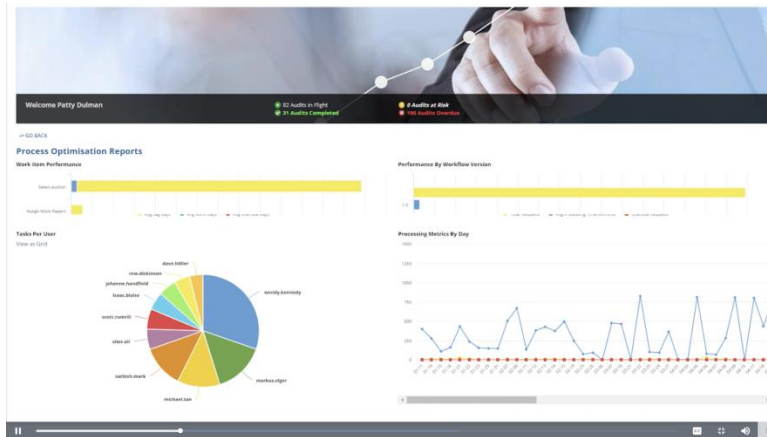
# Reports :

## Reports fall into two categories :-

- **Business Value Reports :** Focus on **key performance indicators** such as revenue or customer satisfaction. They tend to be highly visual, show trends and comparisons.



- **Process Metrics** : These reports focus on **operational efficiency and bottlenecks**. Managers and team leads use these to identify potential problems.



- Appian provides multiple reporting features such as graphs, grids, filters and drilling paths.

## Sources of Report Data :-

