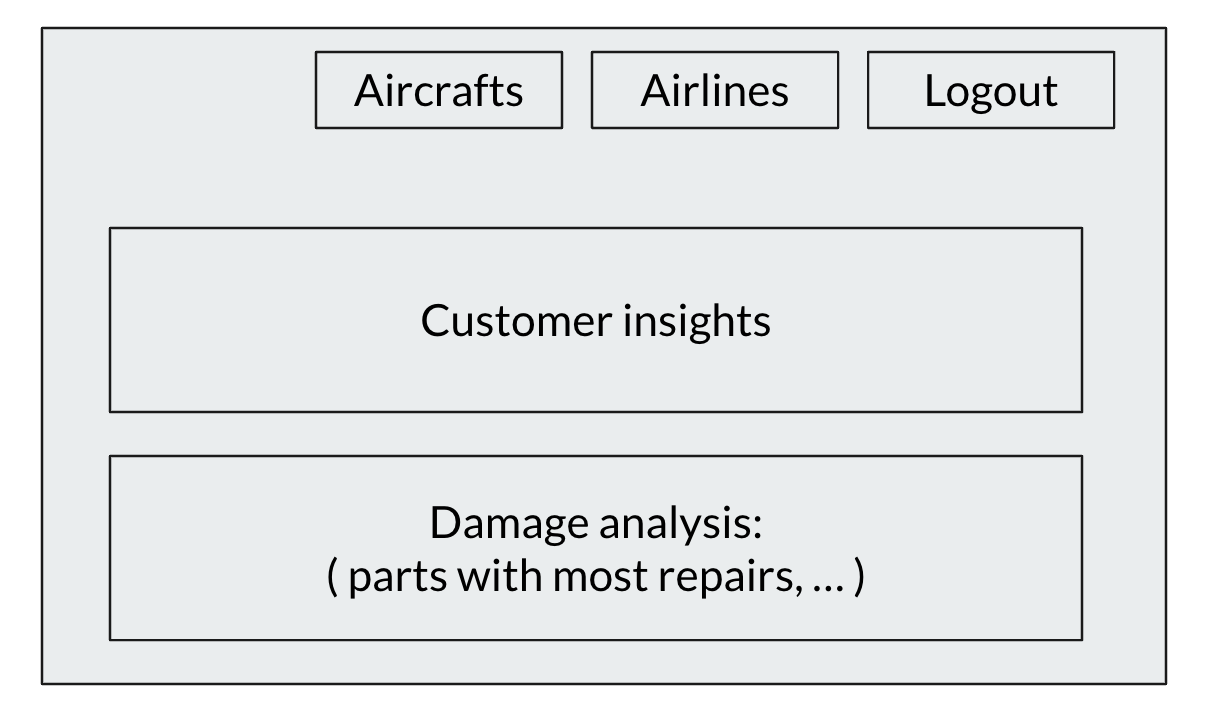
**Airbus Aerothon 6.0**

API details document

**Persona 1: Airbus**

**Page 1: Airbus side: Airbus landing page**

****

**GET call**

**Endpoint**: /airbus/customer\_data

**Response**:

[

{

"**Airline.**customerAirlineId":"customerAirlineId",

"**Airline.**customerAirlineName": "customerAirlineName",

"**Airline.**regionOperated": "regionOperated",

"**[Aircraft + Airline table]**.countOfAircraftsOwned": "countOfAircraftsOwned"

},

...

]

**GET call**

**Endpoint**: /airbus/damage\_data

**Response**:

[

{

"**Damge.**damageDescription": "damageDescription",

"**Damge.**damageTimestamp": "damageTimestamp",

"**Damge.**journeyId": "journeyId",

"**Damge.**partsDamged": ["partDamged"], // List of parts damaged by using the

**DamageToPartsMapping** table and **Damage** table

"**Damge.**severityOfDamage": "severityOfDamage",

"**Damge.**repairInstance": "repairInstance",

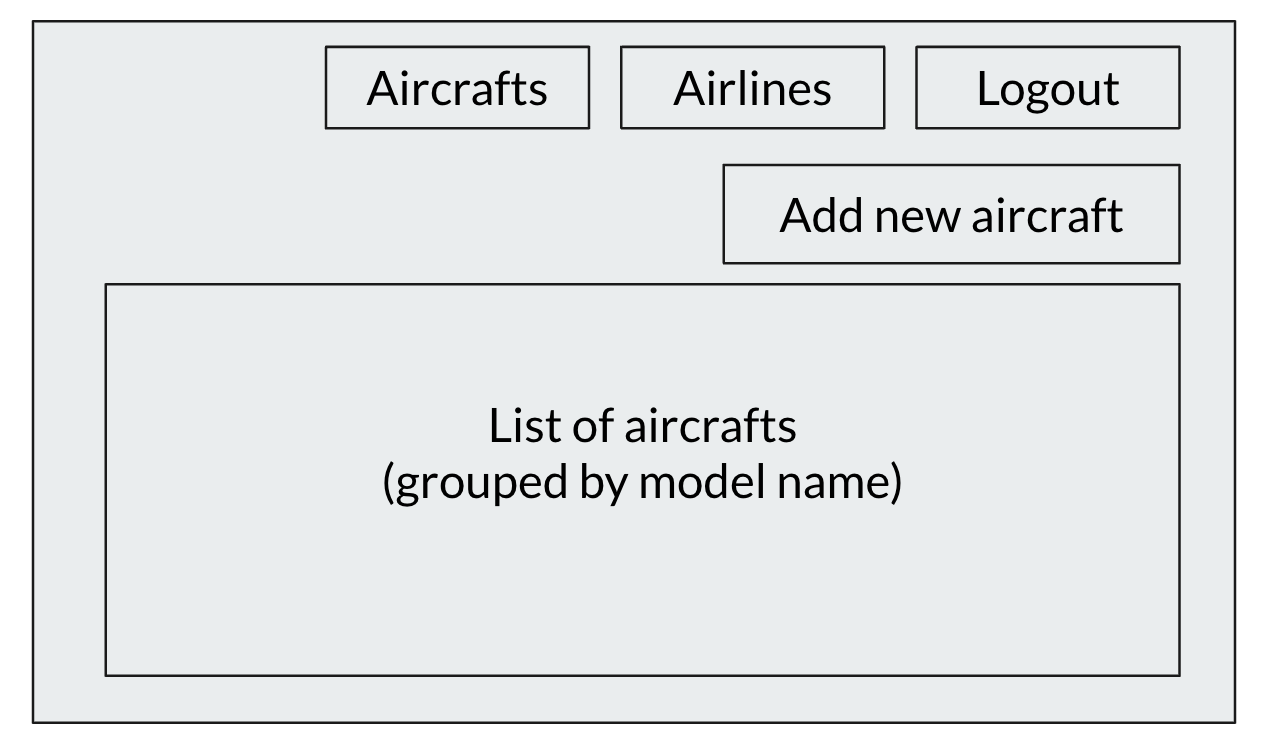
"**Damge.**currentStatusOfDamage": "currentStatusOfDamage"

},

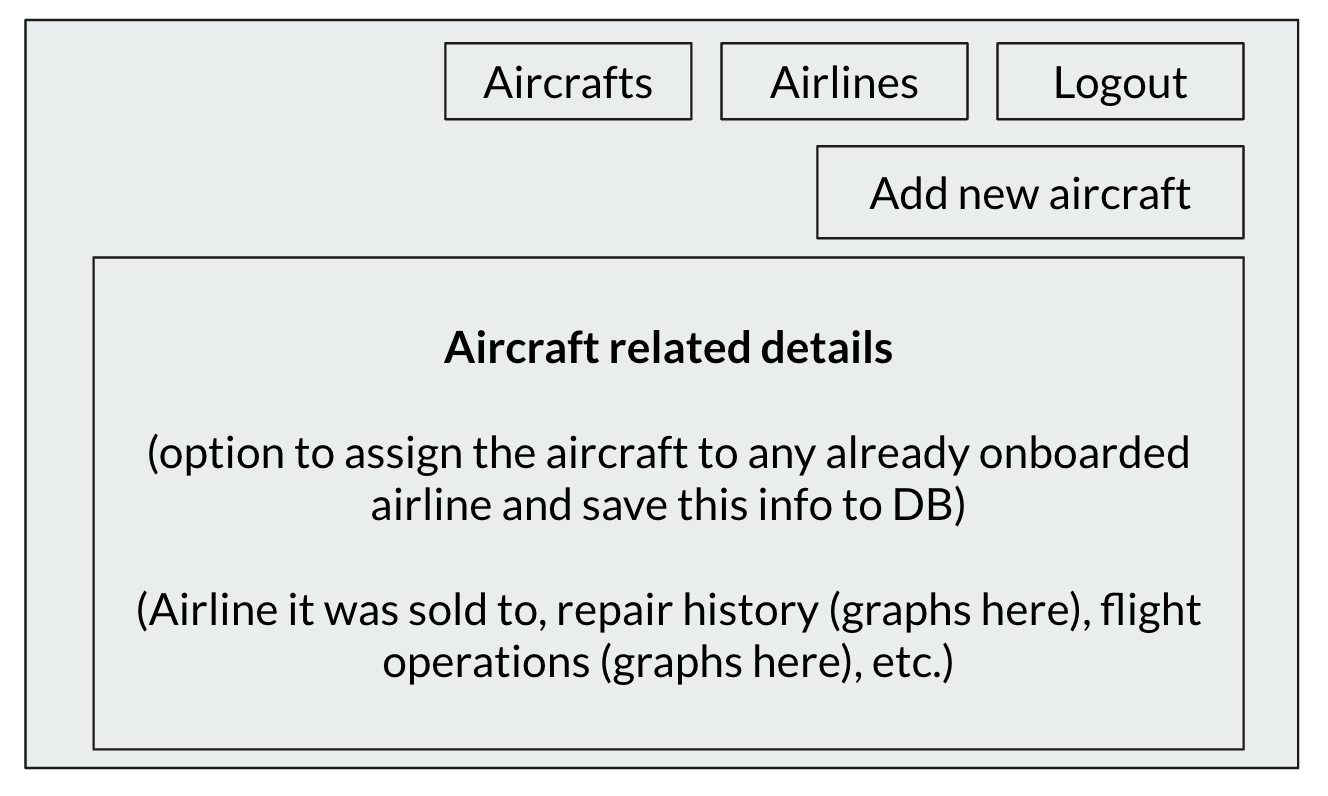
...

]

**Page 2: Airbus side: List of Aircrafts page**



**Airbus side: Aircraft specific page**



**POST call**

**(this call will be made when Airbus personnel tries to add the details of a new aircraft with part names and other details)**

**Endpoint**: /airbus/aircrafts

**Response**:

{

"**Aircraft.**aircraftId": "aircraftId",

"**Aircraft.**aircraftModelId": "aircraftModelId"

"**AircraftParts.**parts": [

{

"partName": "partName",

}, ...

]

}

**GET call**

**(the same call can be used to render both the above 2 pages)**

**Endpoint**: /airbus/aircrafts

**Response**:

[{

"**Aircraft.**aircraftId": "aircraftId",

"**Aircraft.**aircraftModelId": "aircraftModelId",

"**Aircraft.**aircraftModelName": "aircraftModelName",

"**Aircraft.**ownerAirlineId": "ownerAirlineId",

"**Airline.**ownerAirlineName": "ownerAirlineName", // can be calculated using the aircraft id

"**Airline.**ownerAirlineRegionOperated": "ownerAirlineRegionOperated",

"pastJouneyDetails": [

// can be calculated using **PastJourneyDetails table and Aircraft.aircraftId field**

"**PastJourneyDetails.**journeyId": "journeyId",

"**PastJourneyDetails.**sourceAirportId": "sourceAirportId",

"**PastJourneyDetails.**destinationAirport": "destinationAirport"

],

"damageHistory": [

{

"**Damage.**damageId": "damageId",

"**Damage.**damageDescription": "damageDescription",

"**Damage.**damageTimestamp": "damageTimestamp", datetime

"**Damage.**journeyId": "journeyId",

"**Damge.**partsDamged": ["partDamged"], // List of parts damaged by using the

**DamageToPartsMapping** table and **Damage** table

"**Damage.**severityOfDamage": "severityOfDamage",

"**Damage.**repairInstance": "repairInstance",

"**Damage.**currentStatusOfDamage": "currentStatusOfDamage"

},

...

],

"repairHistory": [

{

"**RepairHistory.**repairInstanceId": "repairInstanceId",

"**RepairHistory.**aircraftId": "aircraftId",

"**RepairHistoryToGroundStaffMapping.**responsibleStaffId": "responsibleStaffId",

"**RepairHistoryToPartReplacedMapping**.partsReplaced": "partsReplaced",

"**RepairHistoryToPartRepairedMapping.**partsRepaired": "partsRepaired",

"**RepairHistory.**durationInHours": "durationInHours",

"**RepairHistory.**startTime": "startTime",

"**RepairHistory.**endTime": "endtime",

"**RepairHistory.**costIncurredInDollars": "costIncurredInDollars",

"**RepairHistory.**repairStatus": "repairStatus",

"**RepairHistory.**repairDescritpion": "repairDescritpion"

},

...

],

"maintenanceHistory": [

{

"**MaintenanceHistory.**maintenanceId": "maintenanceId",

"**MaintenanceHistory.**aircraftId": "aircraftId",

"**MaintenanceHistory.**responsibleMroId": "responsibleMroId",

"**MaintenanceHistoryToPartsReplacedMapping.**partsReplaced": "partsReplaced",

"**MaintenanceHistoryToPartsRepairedMapping.**partsRepaired": "partsRepaired",

"**MaintenanceHistory.**durationInDays": "durationInDays",

"**MaintenanceHistory.**startTime": "startTime",

"**MaintenanceHistory.**endTime": "endTime",

"**MaintenanceHistory.**costIncurredInDollars": "costIncurredInDollars"

},

...

],

"aircraftParts": [

{

"**AircraftPart.**partId": "partId",

"**AircraftPart.**partName": "partName",

"**AircraftPart.**aircraftLinkedTo": "aircraftLinkedTo"

},

...

]

}, …]

**POST call**

**(this API will be used to record a new aircraft sold to an airline)**

**Endpoint**: /airbus/sellAircraft

**Request payload:**

{

"**AircraftPurchaseRecord**.airplaneId": "airplaneId",

"**AircraftPurchaseRecord**.airlineId": "airlineId",

"**AircraftPurchaseRecord.**price": "price"

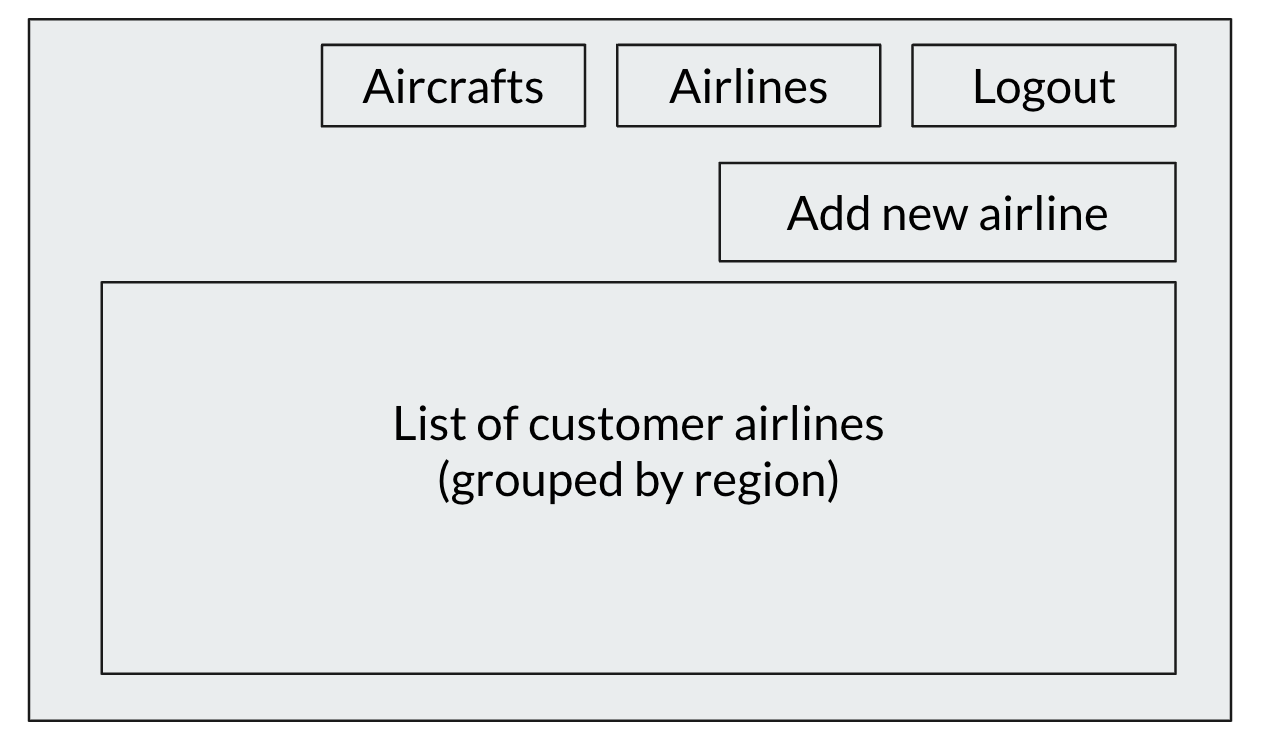
}

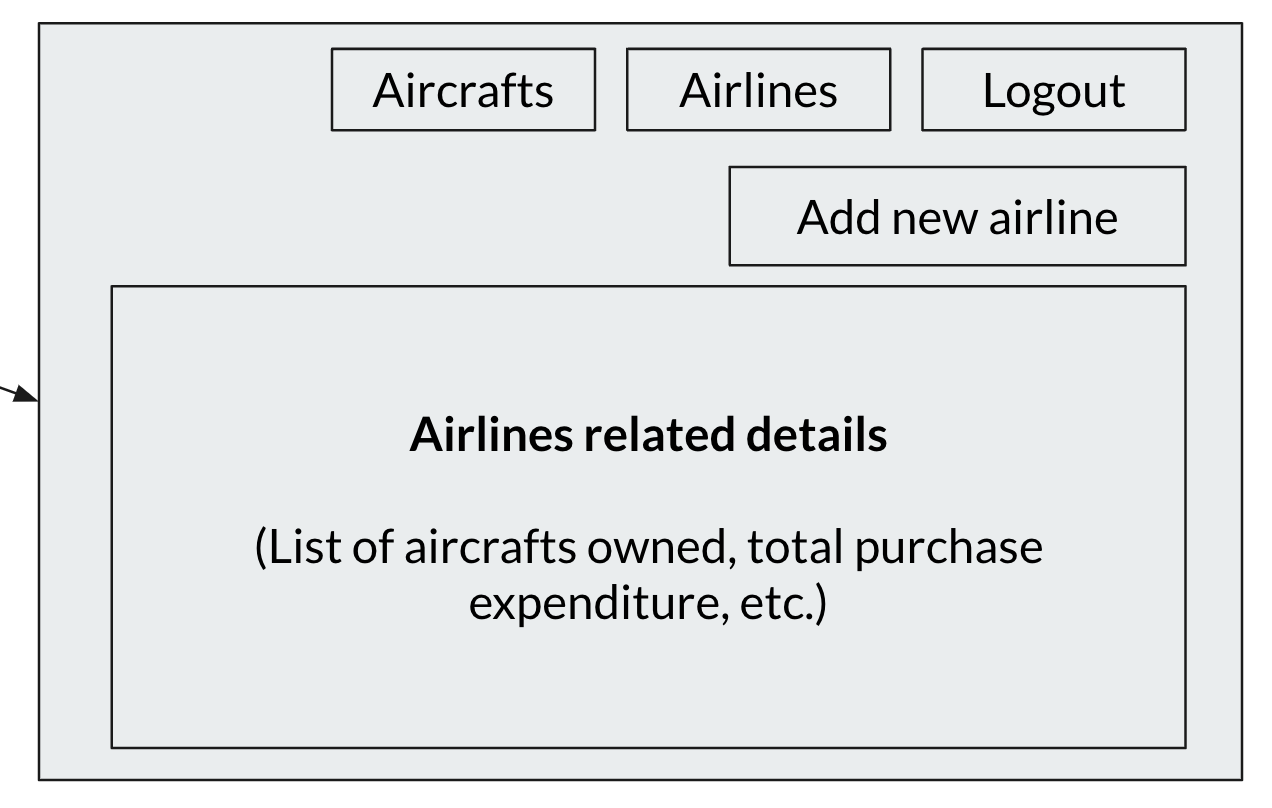
**Response**:

200 OK (if success)

Or 500 (in case of any error)

**Page 3: Airbus side: List of Airlines page**





**GET call**

**(the same call can be used to render both the above 2 pages)**

**Endpoint**: /airbus/airlines

**Response**:

[

{

"**Airline.**airlineId": ... ,

"**Airline.**airlineName": ... ,

"**Airline.**regionOperated": ... ,

"[**Airline and Aircaft table JOIN]** aircraftsOwned": [

"**AircraftPurchaseRecord.**aircraftId": ... ,

"**Aircraft.**aircraftModelId": ... ,

"**AircraftPurchaseRecord.**purchasePrice": ...

]

},

...

]

**POST call**

**(this call will be made when Airbus personnel tries to add the details of a new airline with admin username and password)**

**Endpoint**: /airbus/airlines

**Request payload**:

{

"**Airline.**airlineName": "airlineName",

"**Airline.**regionOperated": "regionOperated",

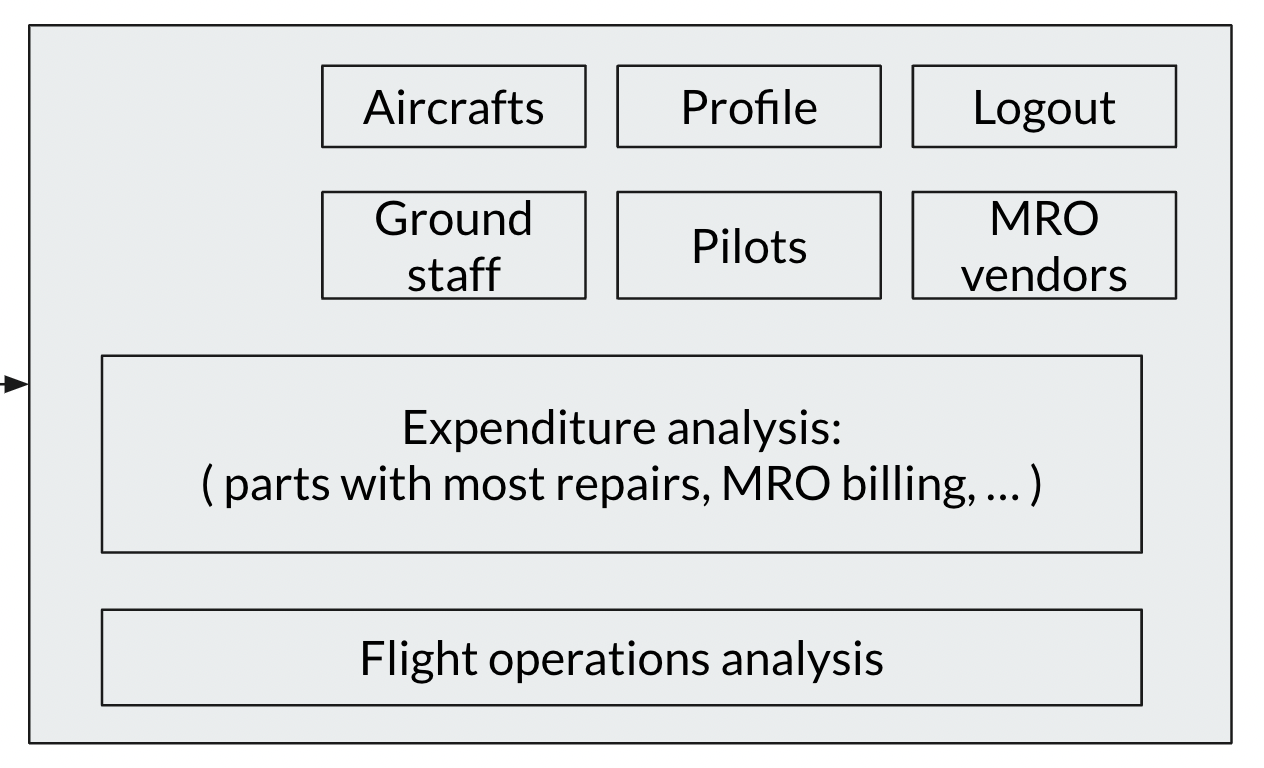
"**Airline.**airlineAdminUser": "airlineAdminUser",

"**Airline.**airlineAdminPassword": "airlineAdminUser"

}

**Persona 2: Airline**

**Page 1: Airline’s landing page**

****

**GET call**

**Endpoint**: /airline/{airline\_id}/airline\_expenditure\_data

**Response**:

{

"repairHistory": [

{

"**RepairHistory**.repairInstanceId": "repairInstanceId",

"**RepairHistory**.aircraftId": "aircraftId",

"[**Aircraft** **Table** and **RepairHistory**.aircraftId].aircraftModelName": "aircraftModelName",

"**RepairHistory.**durationInHours": "durationInHours",

"**RepairHistory.**startTime": "startTime",

"**RepairHistory.**endTime": "endTime",

"**RepairHistory.**costIncurredInDollars": "costIncurredInDollars",

"**RepairHistory.**repairStatus": "repairStatus",

"**RepairHistoryToPartsReplacedMapping.**partsReplaced": [

{

"**RepairHistoryToPartsReplacedMapping.**partId": "partId",

"**[JOIN AircraftPart]**.partName": "partName"

}, ...

],

"**RepairHistoryToPartsRepairedMapping.**partsRepaired": [

{

"**RepairHistoryToPartsRepairedMapping.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

]

}, ...

],

"maintenanceHistory": [

{

"**MaintenanceHistory.**maintenanceId": "maintenanceId",

"**MaintenanceHistory.**aircraftId": "aircraftId",

"**MaintenanceHistory.**responsibleMroId": "responsibleMroId",

"**MaintenanceHistory.**durationInDays": "durationInDays",

"**MaintenanceHistory.**startTime": "startTime",

"**MaintenanceHistory.**endTime": "endTime",

"**MaintenanceHistory.**costIncurredInDollars": "costIncurredInDollars",

"**MaintenanceHistory.**maintenanceStatus": "maintenanceStatus"

"**MaintenanceHistoryToReplacedParts.**partsReplaced": [

{

"**MaintenanceHistoryToReplacedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

],

"**MaintenanceHistoryToRepairedParts.**partsRepaired": [

{

"**MaintenanceHistoryToRepairedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

]

}, ...

]

]

**GET call**

**Endpoint**: /airline/{airline\_id}/flight\_operations\_data

**Response**:

[

{

"**PastJourneyDetails.**journeyId": "journeyId",

"**PastJourneyDetails.**aircraftId": "aircraftId",

"**[JOIN Aircraft].**aircraftModelName": "aircraftModelName",

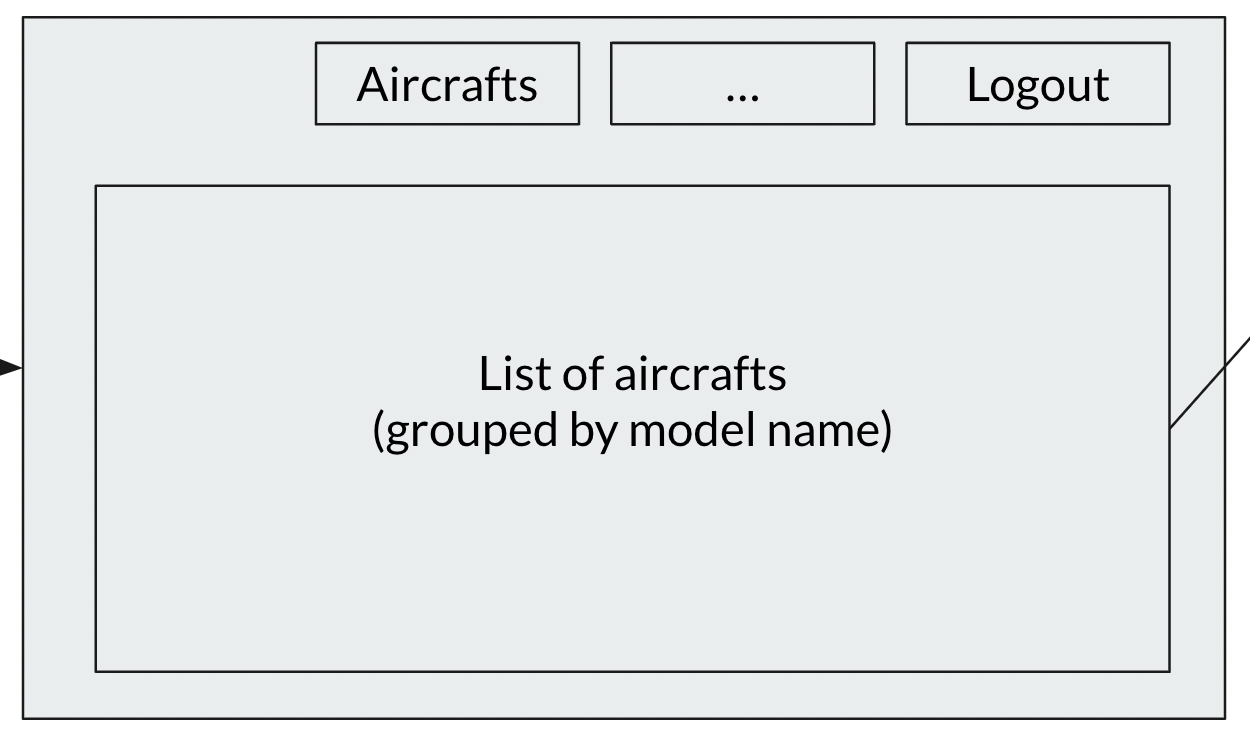
"**PastJourneyDetails.**sourceAirportId": "sourceAirportId",

"**PastJourneyDetails.**destinationAirport": "destinationAirport"

}, ...

]

**Page 2: Airline’s list of aircrafts**



**GET call**

**Endpoint**: /airline/{airline\_id}/aircrafts\_owned

// required join of Aircraft and Airline Table

**Response**:

[

{

"**Aircarft.**aircraftId": "aircraftId",

"**Aircarft..**aircraftModelId": "aircraftModelId",

"**AircarftPurchasedRecord.**purchasedPrice": "purchasedPrice",

"**[Count aggregation PastJouneryDetails]**.journeysCompleted": "journeysCompleted",

"healthCheckStatus": "healthCheckStatus", // not sure how to implement

"repairHistory": [

{

"**RepairHistory**.repairInstanceId": "repairInstanceId",

"**RepairHistory**.aircraftId": "aircraftId",

"[**Aircraft** **Table** and **RepairHistory**.aircraftId].aircraftModelName": "aircraftModelName",

"**RepairHistory.**durationInHours": "durationInHours",

"**RepairHistory.**startTime": "startTime",

"**RepairHistory.**endTime": "endTime",

"**RepairHistory.**costIncurredInDollars": "costIncurredInDollars",

"**RepairHistory.**repairStatus": "repairStatus",

"**RepairHistoryToPartsReplacedMapping.**partsReplaced": [

{

"**RepairHistoryToPartsReplacedMapping.**partId": "partId",

"**[JOIN AircraftPart]**.partName": "partName"

}, ...

],

"**RepairHistoryToPartsRepairedMapping.**partsRepaired": [

{

"**RepairHistoryToPartsRepairedMapping.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

]

}, ...

],

"maintenanceHistory": [

{

"**MaintenanceHistory.**maintenanceId": "maintenanceId",

"**MaintenanceHistory.**aircraftId": "aircraftId",

"**MaintenanceHistory.**responsibleMroId": "responsibleMroId",

"**MaintenanceHistory.**durationInDays": "durationInDays",

"**MaintenanceHistory.**startTime": "startTime",

"**MaintenanceHistory.**endTime": "endTime",

"**MaintenanceHistory.**costIncurredInDollars": "costIncurredInDollars",

"**MaintenanceHistory.**maintenanceStatus": "maintenanceStatus"

"**MaintenanceHistoryToReplacedParts.**partsReplaced": [

{

"**MaintenanceHistoryToReplacedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

],

"**MaintenanceHistoryToRepairedParts.**partsRepaired": [

{

"**MaintenanceHistoryToRepairedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

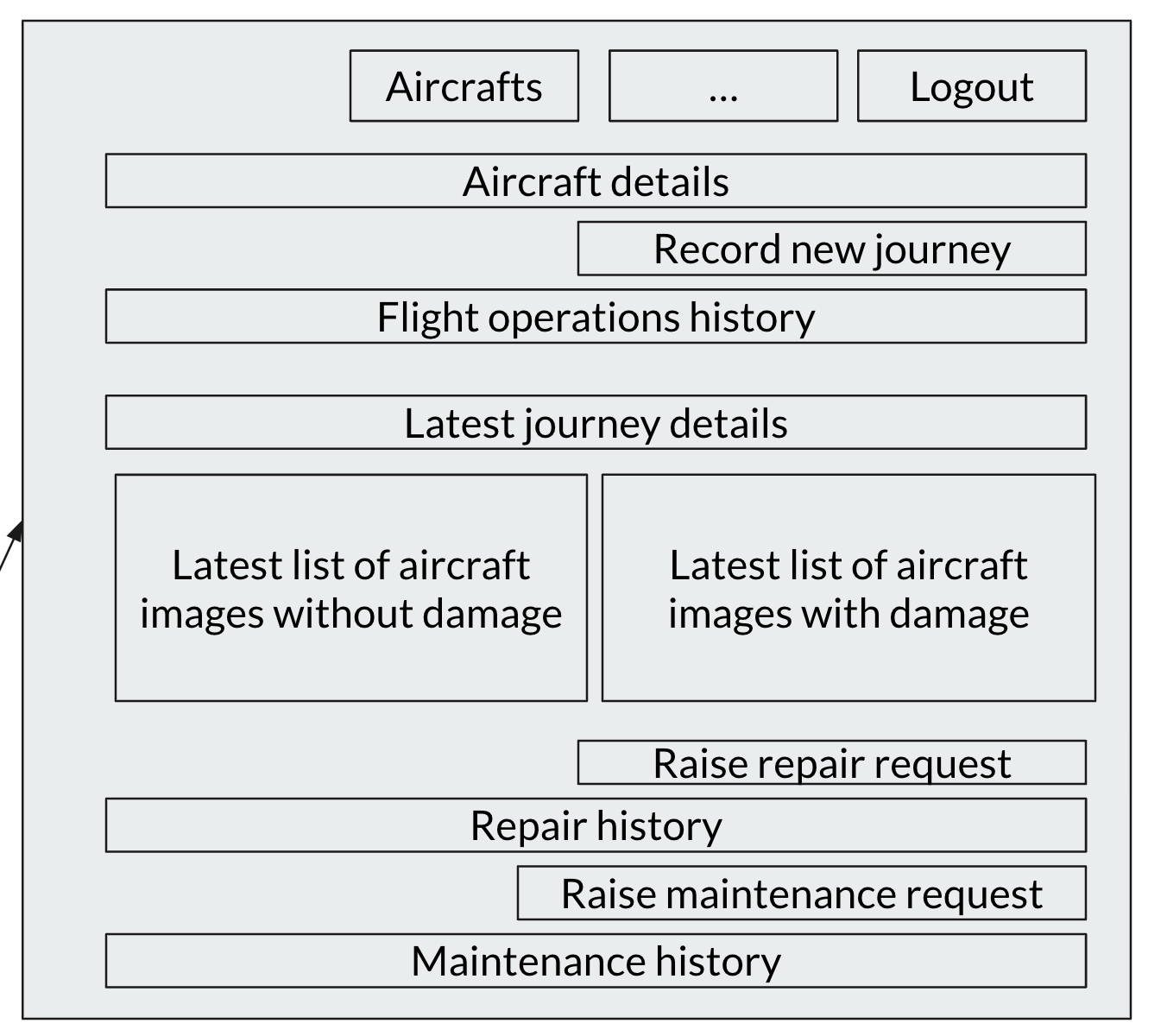
}, ...

]

}, ...

]

**Page 3: Airline’s aircraft specific page**

****

**GET call**

**Endpoint**: /airline/{airline\_id}/aircraft\_details/{aircraft\_id}

**Response**:

{

"**Aircraft.**aircraftId": "aircraftId",

"**Aircraft.**aircraftModelId": "aircraftModelId",

"**AircraftPurchasedRecord.**purchasedPrice": "purchasedPrice",

"**[count aggregation on PastJourneyDetails].**journeysCompleted": "journeysCompleted",

}

**GET call**

**Endpoint**: /airline/{airline\_id}/flight\_operations\_history/{aircraft\_id}

**Response**:

[

{

"**PastJourneyDetails.**journeyId": "journeyId",

"**PastJourneyDetails.**aircraftId": "aircraftId", // for specific aircraft id

"**[JOIN Aircraft].**aircraftModelName": "aircraftModelName",

"**PastJourneyDetails.**sourceAirportId": "sourceAirportId",

"**PastJourneyDetails.**destinationAirport": "destinationAirport"

}, ...

]

**POST call**

**Endpoint**: /airline/{airline\_id}/add\_journey\_details/{aircraft\_id}

**Request Payload**:

{

"**PastJourneyDetails.**sourceAirportId": "sourceAirportId",

"**PastJourneyDetails.**destinationAirport": "destinationAirport",

"listOfImages": "listOfImages" // need to see how to add files

}

**GET call**

**Endpoint**: /airline/{airline\_id}/last\_journey\_details/{aircraft\_id}

**Response**:

{

"**PastJourneyDetails.**journeyId": "journeyId",

"**PastJourneyDetails.**sourceAirportId": "sourceAirportId",

"**PastJourneyDetails.**destinationAirport": "destinationAirport",

"listOfImagesWithLabels": "listOfImagesWithLabels" // need to see how to add files

}

**GET call**

**Endpoint**: /airline/{airline\_id}/repair\_history/{aircraft\_id}

**Response**:

**Response**:

[

{

"**RepairHistory**.repairInstanceId": "repairInstanceId",

"**RepairHistory**.aircraftId": "aircraftId",

"[**Aircraft** **Table** and **RepairHistory**.aircraftId].aircraftModelName": "aircraftModelName",

"**RepairHistory.**durationInHours": "durationInHours",

"**RepairHistory.**startTime": "startTime",

"**RepairHistory.**endTime": "endTime",

"**RepairHistory.**costIncurredInDollars": "costIncurredInDollars",

"**RepairHistory.**repairStatus": "repairStatus",

"**RepairHistoryToPartsReplacedMapping.**partsReplaced": [

{

"**RepairHistoryToPartsReplacedMapping.**partId": "partId",

"**[JOIN AircraftPart]**.partName": "partName"

}, ...

],

"**RepairHistoryToPartsRepairedMapping.**partsRepaired": [

{

"**RepairHistoryToPartsRepairedMapping.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

]

}, ...

]

**GET call**

**Endpoint**: /airline/{airline\_id}/maintenance\_history/{aircraft\_id}

**Response**:

"maintenanceHistory": [

{

"**MaintenanceHistory.**maintenanceId": "maintenanceId",

"**MaintenanceHistory.**aircraftId": "aircraftId",

"**MaintenanceHistory.**responsibleMroId": "responsibleMroId",

"**MaintenanceHistory.**durationInDays": "durationInDays",

"**MaintenanceHistory.**startTime": "startTime",

"**MaintenanceHistory.**endTime": "endTime",

"**MaintenanceHistory.**costIncurredInDollars": "costIncurredInDollars",

"**MaintenanceHistory.**maintenanceStatus": "maintenanceStatus"

"**MaintenanceHistoryToReplacedParts.**partsReplaced": [

{

"**MaintenanceHistoryToReplacedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

],

"**MaintenanceHistoryToRepairedParts.**partsRepaired": [

{

"**MaintenanceHistoryToRepairedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

]

}, ...

]

**GET call**

**Endpoint**: /mro

**Request payload**:

[

{

**"MROVendor.**mroId": "mroId",

"**"MROVendor.**mroCompanyName": "mroCompanyName",

"**"MROVendor.**mroAirportId": "mroAirportId",

"**"MROVendorToSupportedAircraftModelMapping.**supportedAircrafts": [

{

"**MROVendorToSupportedAircraftModelMapping**.aircraftModelId": "aircraftModelId",

"**[JOIN AircraftModel].**aircraftModelName": "aircraftModelName" // new addition

}, ...

]

}, ...

]

**POST call**

**(this call will be made when a new maintenance request has to be raised)**

**Endpoint**: /airline/{airline\_id}/aircrafts\_owned/{aircraft\_id}/maintenance\_request

**Request payload**:

{

"**MaintenanceHistory.**aircraftId": "aircraftId",

"**MaintenanceHistory**.responsibleMroId": "responsibleMroId",

"listOfImages": [{images}] // need to have alook

}

**POST call**

**(this call will be made when a new repair request has to be raised)**

**Endpoint**: /airline/{airline\_id}/aircrafts\_owned/{aircraft\_id}/repair\_request

**Request payload**:

{

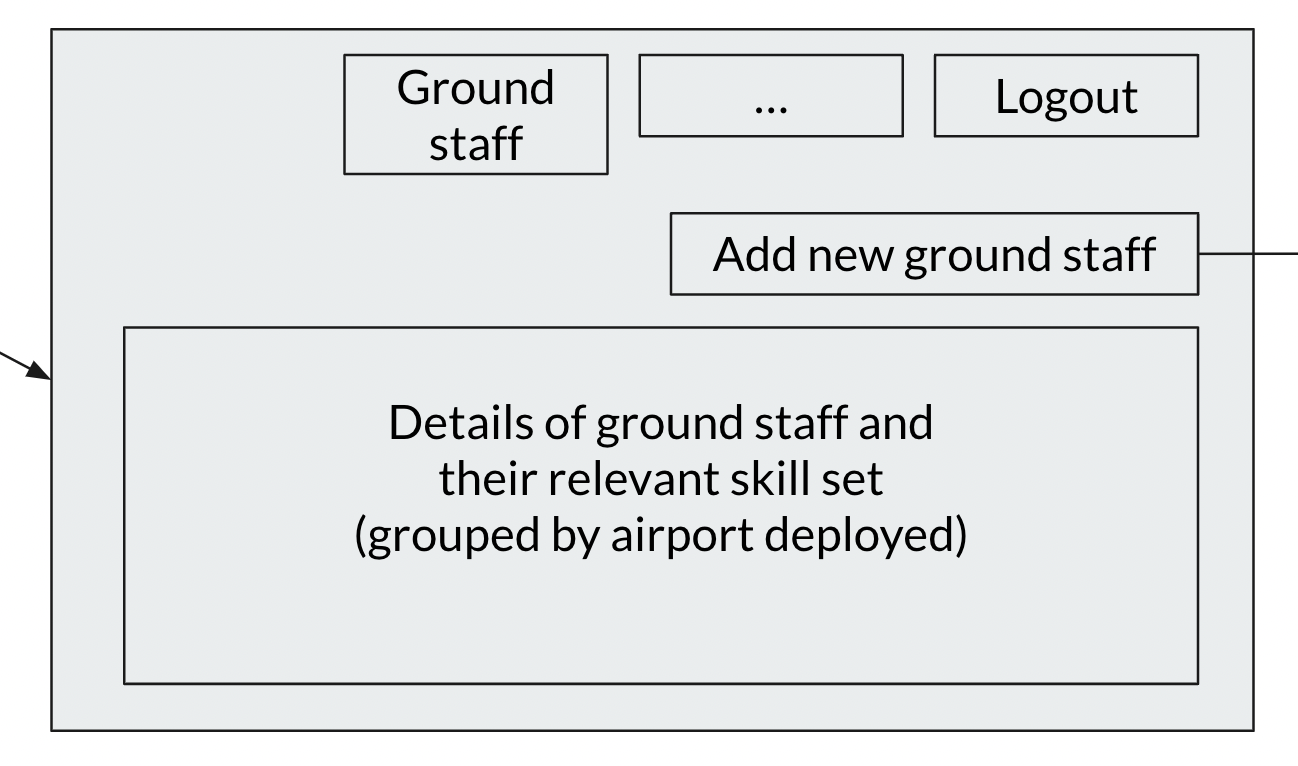
"**RepairRequest**.aircraftId": "aircraftId",

"**RepairRequest.**responsibleGroundStaffId": "responsibleGroundStaffId",

"listOfImages": [{images}] // need to have alook

}

**Page 4: Airline’s list of ground staff**

****

**GET call**

**Endpoint**: /airline/{airline\_id}/ground\_staff

**Response**:

[

{

"**GroundStaff.**staffMemberId": "staffMemberId",

"**GroundStaff.**staffMemberFirstName": "staffMemberId",

"**GroundStaff.**staffMemberLasttName": "staffMemberLasttName",

"**GroundStaff.**staffMemberDob": "staffMemberDob",

"**GroundStaff.**employerAirlineId": "employerAirlineId",

"**GroundStaff.**deployedAirportId": "deployedAirportId",

"**[JOIN Airport].**deployedAirportName": "deployedAirportName",

"skillSet": [

{

"**GroundStaffToSkillSetMapping.**skillId": "skillId",

"**[JOIN Skill].**skillName": "skillName"

}, ...

]

}, ...

]

**POST call**

**(this call will be made to onboard a new ground staff member)**

**Endpoint**: /airline/{airline\_id}/ground\_staff

**Request payload**:

[

{

"**GroundStaff.**staffMemberFirstName": "staffMemberId",

"**GroundStaff.**staffMemberLasttName": "staffMemberLasttName",

"**GroundStaff.**staffMemberDob": "staffMemberDob",

"**GroundStaff.**employerAirlineId": "employerAirlineId",

"**GroundStaff.**deployedAirportId": "deployedAirportId",

"**GroundStaff.**staffMemberUsername": "staffMemberUsername",

"**GroundStaff.**staffMemberPassword": "staffMemberPassword",

"skillSet": [

{

"**GroundStaffToSkillSetMapping.**skillId": "skillId",

"**[JOIN Skill].**skillName": "skillName"

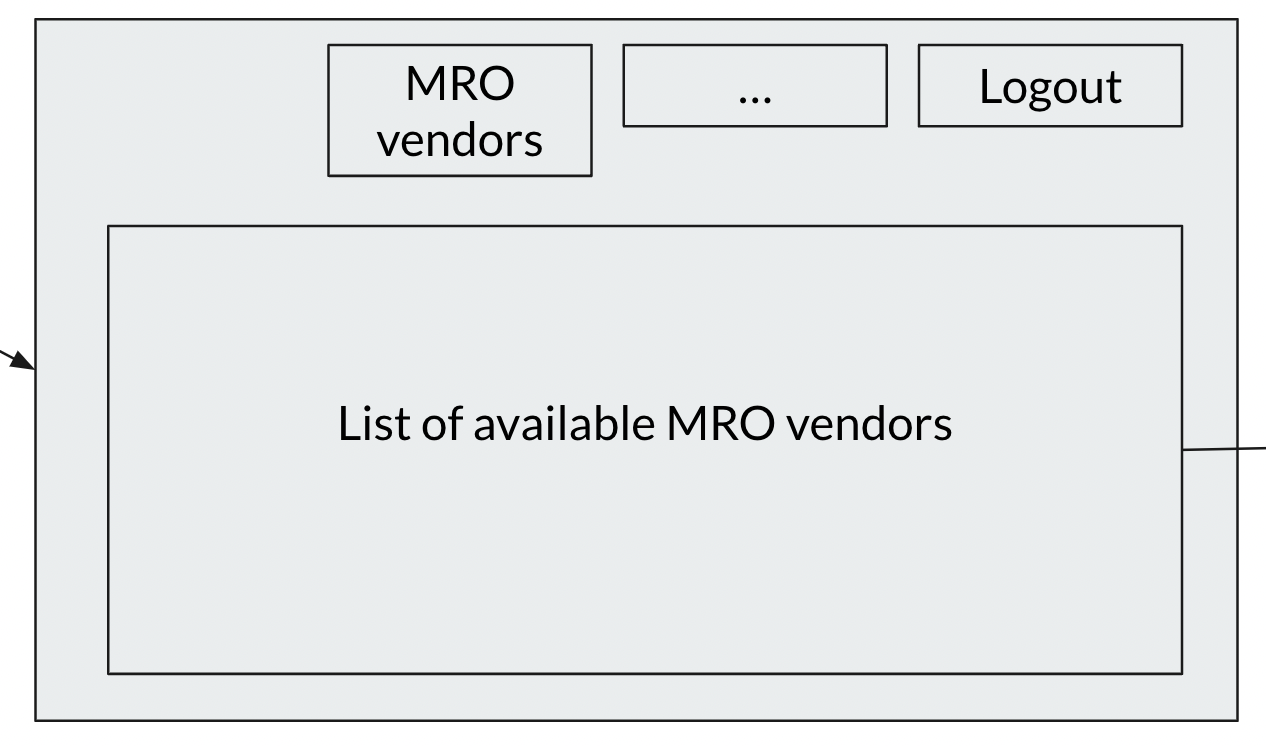
}, ...

]

}, ...

]

**Page 5: Airline’s list of all MROs**

****

**GET call**

**Endpoint**: /mro

**Response**:

[

{

"**MROVendor.**mroId": "mroId",

"**MROVendor.**mroCompanyName": "mroCompanyName",

"**MROVendor.**mroAirportId": "mroAirportId",

"supportedAircrafts": [

{

"**MROVendorToSupportedAircraftModelMapping**.aircraftId": "aircraftId",

"**[JOIN Aircraft]**.aircraftName": "aircraftName"

}, ...

],

"**[count aggregation MaintenanceHistory].**timesServed": "timesServed",

"previousInteractions": [

{ // need to select all the **MaintenanceHistory** records that were for the same airline

"**MaintenanceHistory.**aircraftModelId": "aircraftModelId",

"**[JOIN Aircarft].**aircraftModelName": "aircraftModelName",

"**MaintenanceHistory.**costIncurredInDollars": "costIncurredInDollars",

"**MaintenanceHistory.**daysConsumed": "daysConsumed",

"**MaintenanceHistory.**currentMaintenanceStatus": "currentMaintenanceStatus"

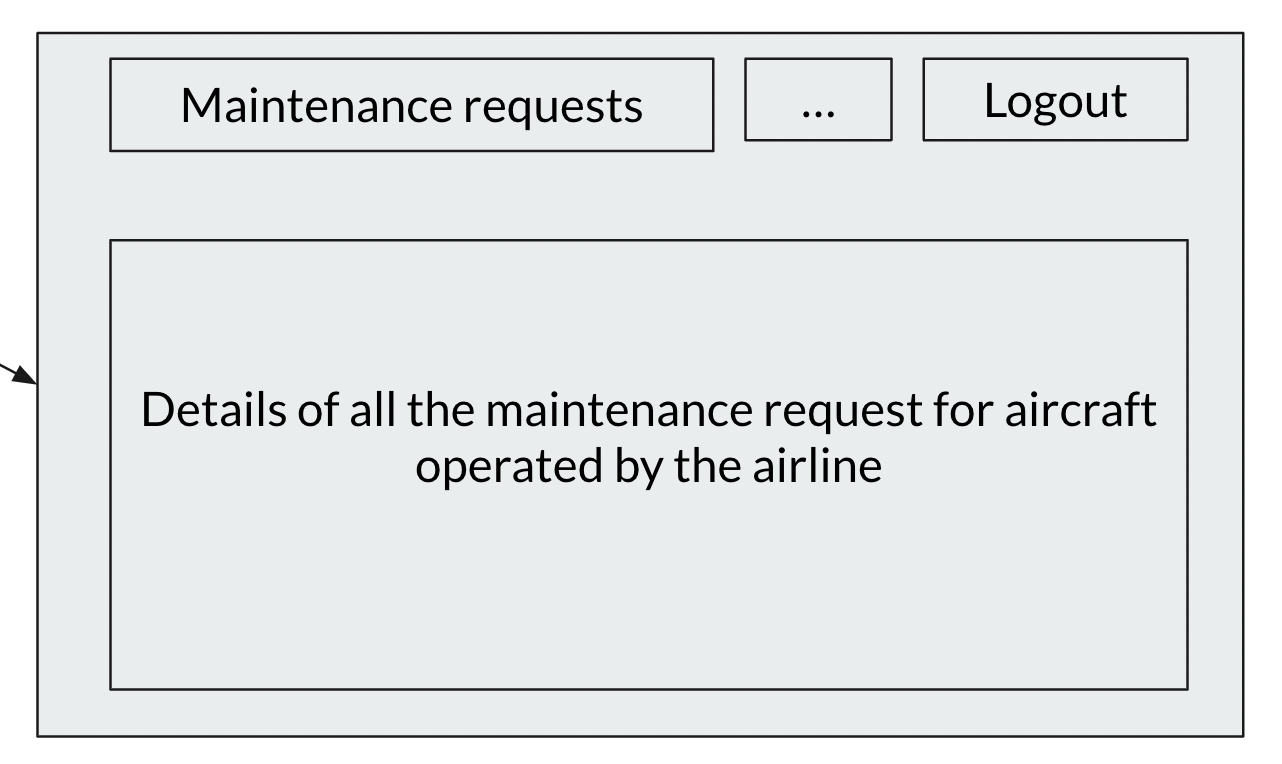
}

]

}, ...

]

**Page 6: Airline’s maintenance history**

****

**GET call**

**Endpoint**: /airline/{airline\_id}/maintenance\_requests

**Response**:

[

{

"**MaintenanceHistory.**maintenanceId": "maintenanceId",

"**MaintenanceHistory.**aircraftId": "aircraftId",

"**MaintenanceHistory.**responsibleMroId": "responsibleMroId",

"**MaintenanceHistory.**durationInDays": "durationInDays",

"**MaintenanceHistory.**startTime": "startTime",

"**MaintenanceHistory.**endTime": "endTime",

"**MaintenanceHistory.**costIncurredInDollars": "costIncurredInDollars",

"**MaintenanceHistory.**maintenanceStatus": "maintenanceStatus"

"**MaintenanceHistoryToReplacedParts.**partsReplaced": [

{

"**MaintenanceHistoryToReplacedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

],

"**MaintenanceHistoryToRepairedParts.**partsRepaired": [

{

"**MaintenanceHistoryToRepairedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

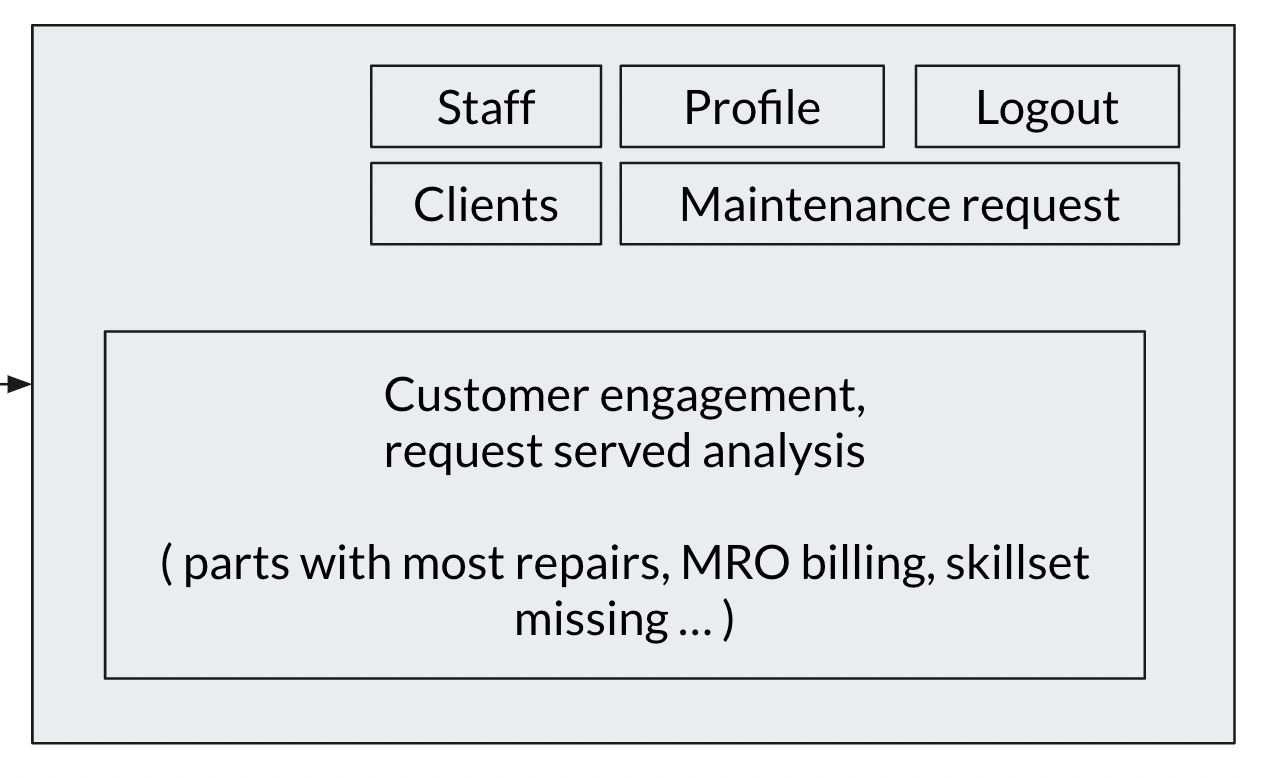
]

}, …

]

**Persona 3: MRO vendors**

**Page 1: MRO vendor’s landing page**



**GET call**

**Endpoint**: /mro/{mro\_id}/customer\_and\_revenue\_data

**Response**:

{

"customer\_stats": [

{

"**[group by on MaintenanceHistory].**customerAirlineId": "customerAirlineId",

"**[JOIN Airline].**customerAirlineName": "customerAirlineName",

"**[count aggr. on MaintenanceHistory with airlineId]**.maintenanceRequestsReceived":

"maintenanceRequestsReceived",

"**[sum aggregation on MaintenanceHistory].**revenueGenerated": "revenueGenerated",

"**[count aggregation on MaintenanceHistory with status].**requestCurrentlyInQueue":

"requestCurrentlyInQueue"

}, ...

],

"aircraft\_stats": [

{

"**[group by on MaintenanceHistory].**aircraftModelName": "aircraftModelName",

"**[count aggregation on MaintenanceHistory].**unitsReceived": "unitsReceived",

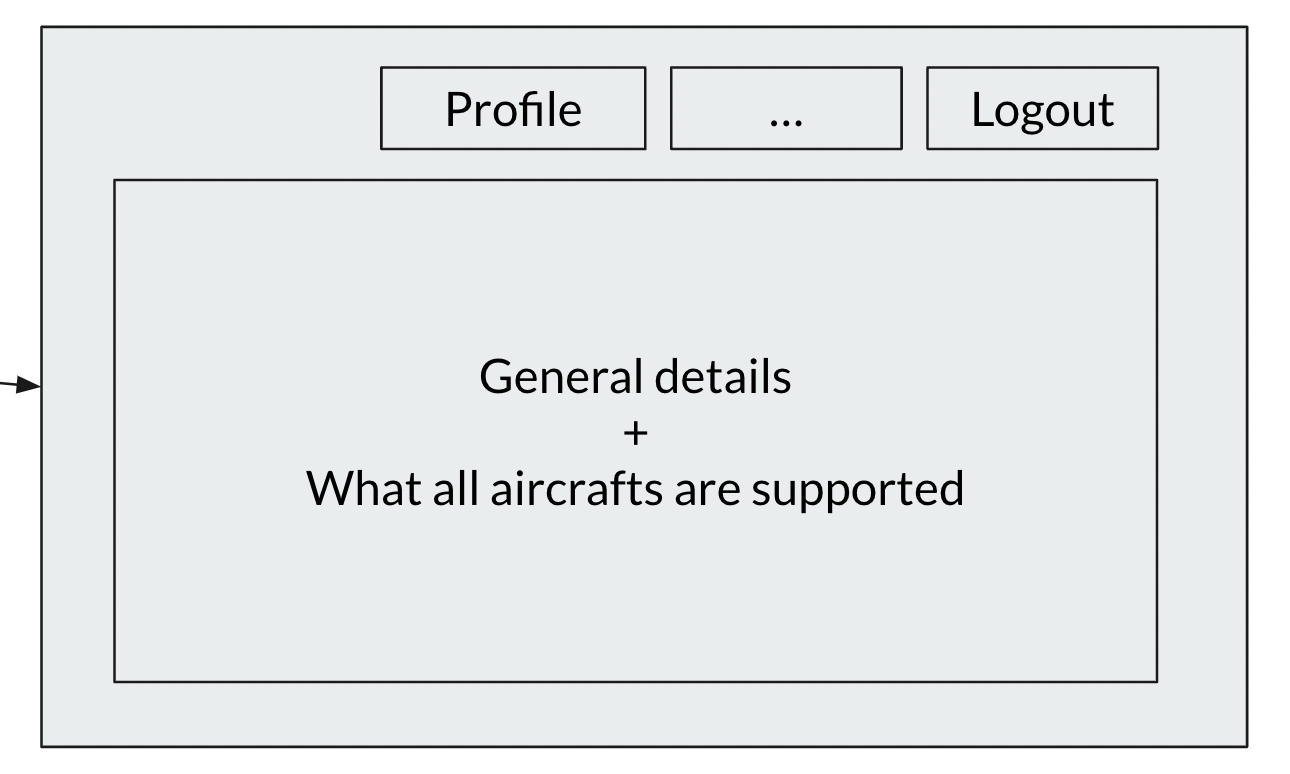
"**[sum aggregation on MaintenanceHistory].**revenueGenerated": "revenueGenerated"

}, ...

]

}

**Page 3: MRO vendor’s profile page**

****

**GET call**

**Endpoint**: /mro/{mro\_id}/profile

**Response**:

{

"**MROVendor**.mroId": "mroId",

"**MROVendor.**mroCompanyName": "mroCompanyName",

"**MROVendor.**mroAirportId": "mroAirportId",

"**[JOIN MROVendor and Airport].**mroAirportName": "mroAirportName",

"listOfSupportedAircrafts": [

{

"**MROVendorToSupportedAircraftModelMapping.**aircraftModelId": "aircraftModelId",

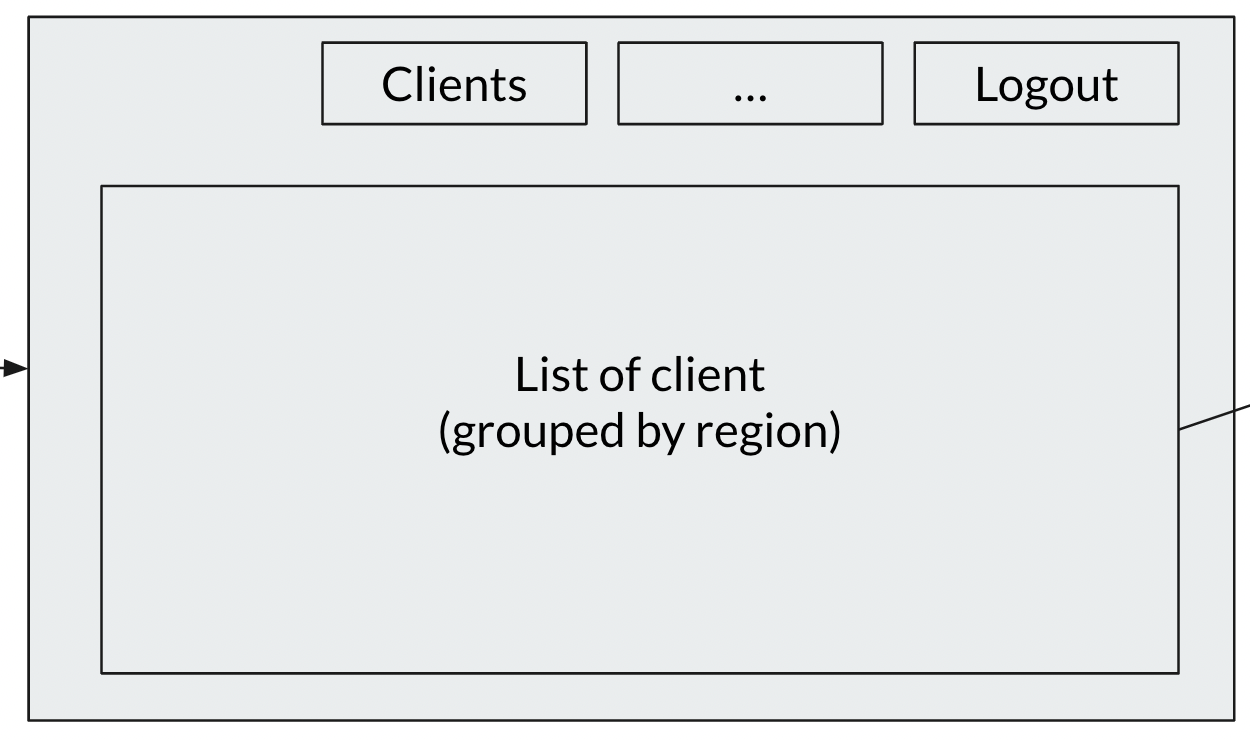
"**[JOIN Aircraft].**aircraftModelName": "aircraftModelName"

}, ...

]

}

**Page 3: MRO vendor’s customer airlines page**

****

**GET call**

**Endpoint**: /mro/{mro\_id}/customer\_airlines

**Response**:

[

{

"**[Select unique from MaintenanceHistory]**.customerAirlineId": "customerAirlineId",

"**[JOIN Airline].**customerAirlineName": "customerAirlineName",

"**[count aggr on MaintenanceHistory].**maintenanceRequestsReceived":

"maintenanceRequestsReceived",

"**[sum aggr on MaintenanceHistory].**revenueGenerated": "revenueGenerated",

"**[count aggregation on MaintenanceHistory].**requestCurrentlyInQueue":

"requestCurrentlyInQueue",

"maintenanceHistory": [{

"**MaintenanceHistory.**maintenanceId": "maintenanceId",

"**MaintenanceHistory.**aircraftId": "aircraftId",

"**MaintenanceHistory.**responsibleMroId": "responsibleMroId",

"**MaintenanceHistory.**durationInDays": "durationInDays",

"**MaintenanceHistory.**startTime": "startTime",

"**MaintenanceHistory.**endTime": "endTime",

"**MaintenanceHistory.**costIncurredInDollars": "costIncurredInDollars",

"**MaintenanceHistory.**maintenanceStatus": "maintenanceStatus"

"**MaintenanceHistoryToReplacedParts.**partsReplaced": [

{

"**MaintenanceHistoryToReplacedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

],

"**MaintenanceHistoryToRepairedParts.**partsRepaired": [

{

"**MaintenanceHistoryToRepairedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

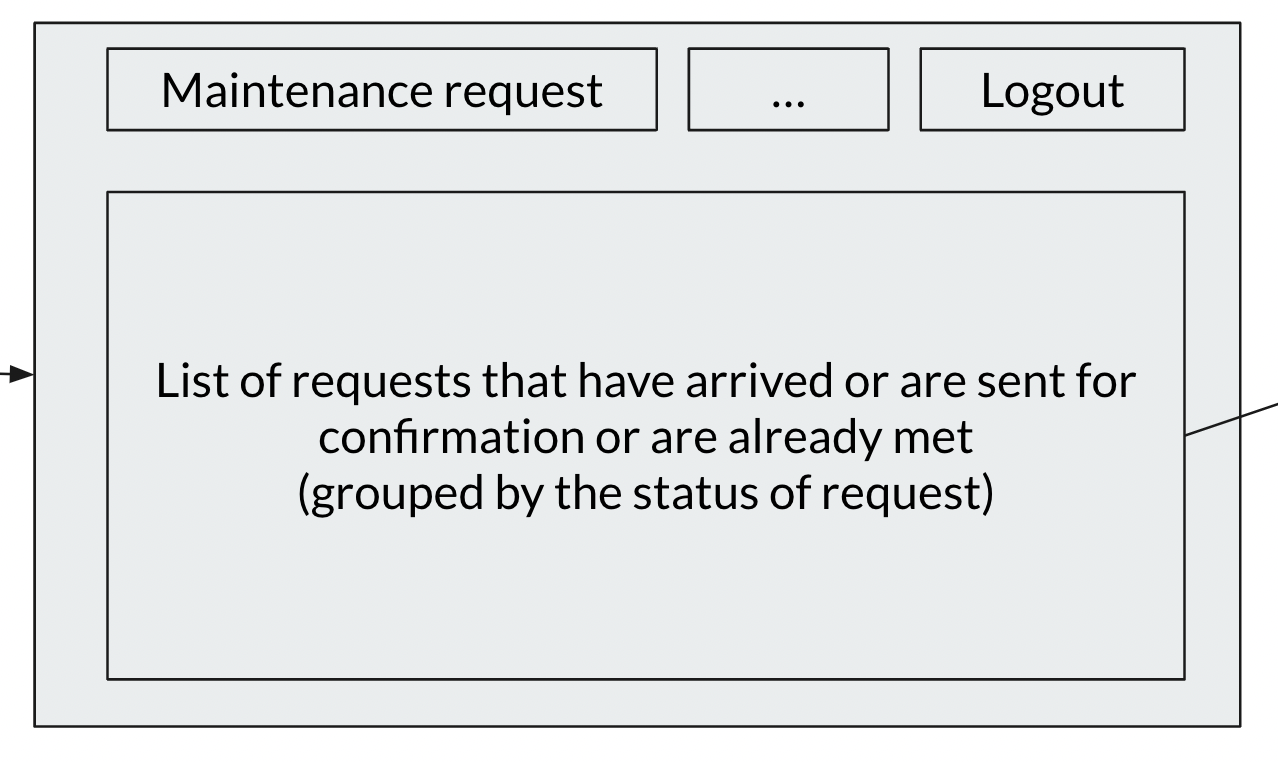
}, ...

]

},

]

**Page 4: MRO vendor’s customer airline maintenance requests**



**GET call**

**Endpoint**: /mro/{mro\_id}/maintenance\_requests

**Response**:

[

{

"**MaintenanceHistory.**maintenanceId": "maintenanceId",

"**MaintenanceHistory.**aircraftId": "aircraftId",

"**MaintenanceHistory.**responsibleMroId": "responsibleMroId",

"**MaintenanceHistory.**durationInDays": "durationInDays",

"**MaintenanceHistory.**startTime": "startTime",

"**MaintenanceHistory.**endTime": "endTime",

"**MaintenanceHistory.**costIncurredInDollars": "costIncurredInDollars",

"**MaintenanceHistory.**maintenanceStatus": "maintenanceStatus"

"**MaintenanceHistoryToReplacedParts.**partsReplaced": [

{

"**MaintenanceHistoryToReplacedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

],

"**MaintenanceHistoryToRepairedParts.**partsRepaired": [

{

"**MaintenanceHistoryToRepairedParts.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

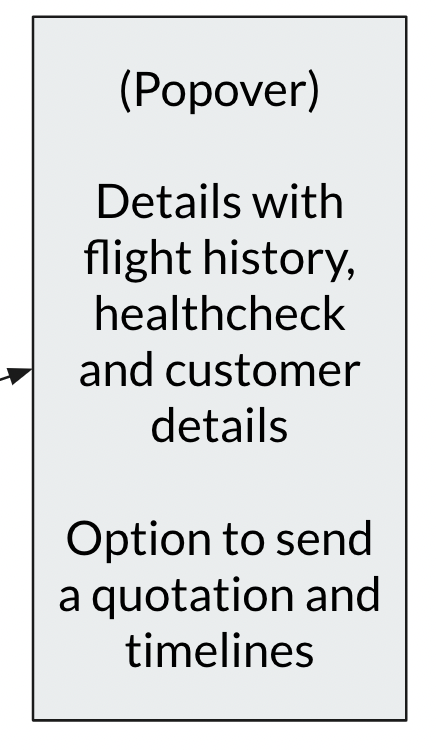
}, ...

]

}, …

]

**Page 5: MRO vendor’s customer airlines send quotation**



**POST call**

**Endpoint**: /mro/{mro\_id}/quotation/{maintenance\_request\_id}

**Request payload:**

{

"**MaintenanceRequest**.maintenanceId": "maintenanceId",

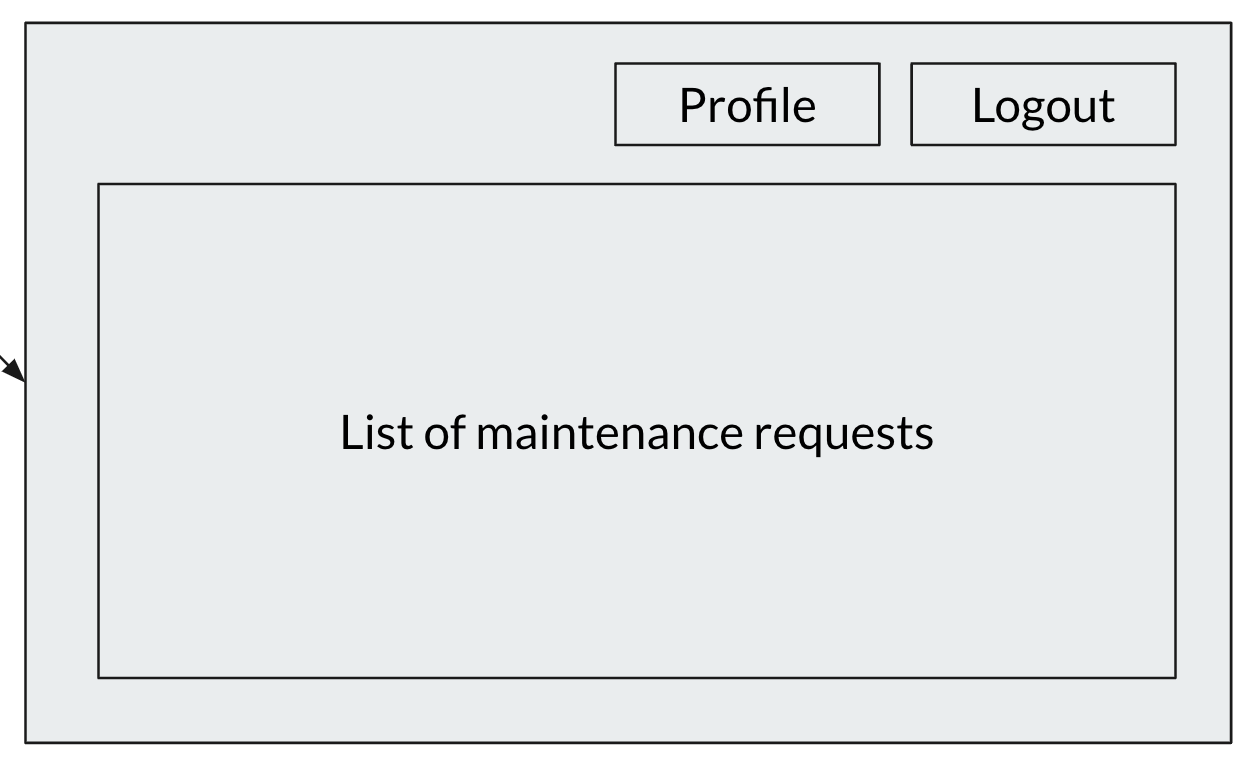
"**MaintenanceRequest.**quotationAmountInDollars": "quotationAmountInDollars",

"**MaintenanceRequest.**durationInDays": "durationInDays"

}

**Persona 4: Ground staff**

**Page 1: Ground staff landing page**

****

**GET call**

**Endpoint**: /ground\_staff/{ground\_staff\_id}/repair\_requests

**Response**:

[

{

"**RepairHistory**.repairInstanceId": "repairInstanceId",

"**RepairHistory**.aircraftId": "aircraftId",

"[**Aircraft** **Table** and **RepairHistory**.aircraftId].aircraftModelName": "aircraftModelName",

"**RepairHistory.**durationInHours": "durationInHours",

"**RepairHistory.**startTime": "startTime",

"**RepairHistory.**endTime": "endTime",

"**RepairHistory.**costIncurredInDollars": "costIncurredInDollars",

"**RepairHistory.**repairStatus": "repairStatus",

"**RepairHistoryToPartsReplacedMapping.**partsReplaced": [

{

"**RepairHistoryToPartsReplacedMapping.**partId": "partId",

"**[JOIN AircraftPart]**.partName": "partName"

}, ...

],

"**RepairHistoryToPartsRepairedMapping.**partsRepaired": [

{

"**RepairHistoryToPartsRepairedMapping.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

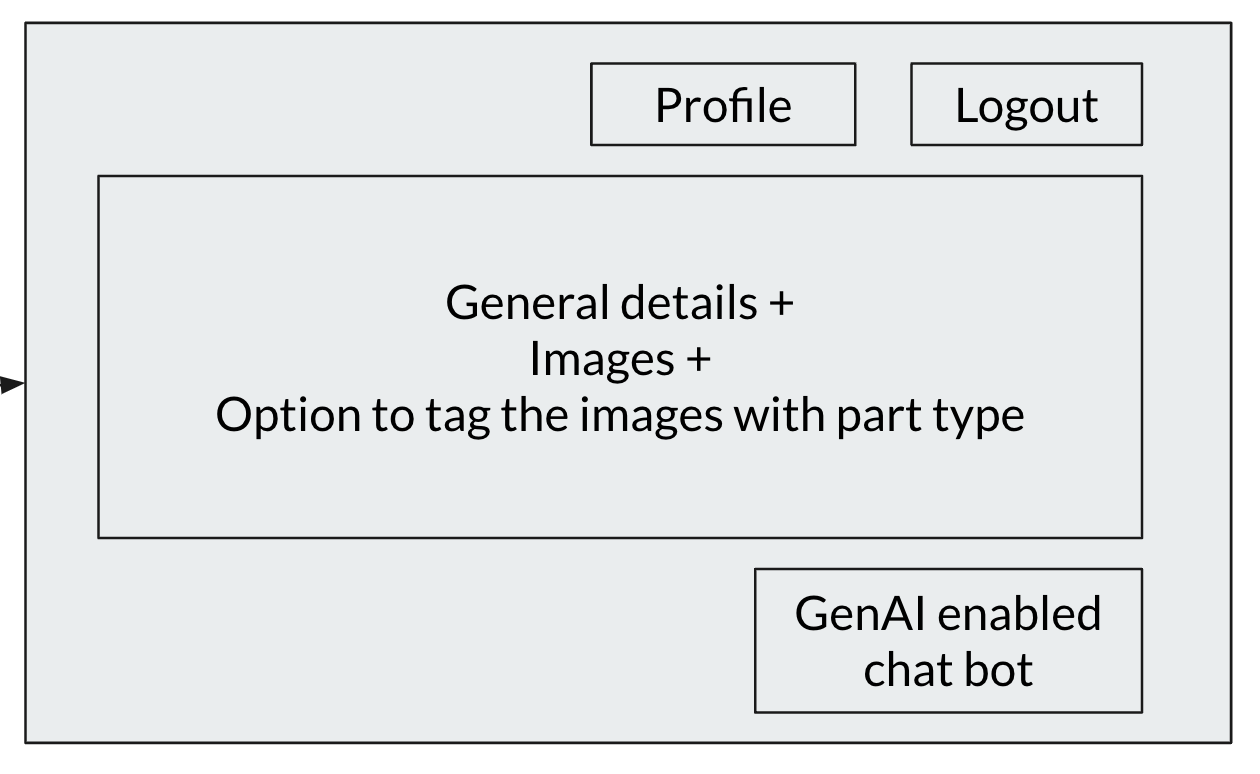
}, ...

]

}, ...

]

**Page 2: Ground staff repair request specific page**

****

**GET call**

**Endpoint**: /ground\_staff/{ground\_staff\_id}/repair\_requests/{maintenance\_requests\_id}

**Response**:

**##### HOW TO PASS THE LIST OF IMAGES #####**

{

"**RepairHistory**.repairInstanceId": "repairInstanceId",

"**RepairHistory**.aircraftId": "aircraftId",

"[**Aircraft** **Table** and **RepairHistory**.aircraftId].aircraftModelName": "aircraftModelName",

"**RepairHistory.**durationInHours": "durationInHours",

"**RepairHistory.**startTime": "startTime",

"**RepairHistory.**endTime": "endTime",

"**RepairHistory.**costIncurredInDollars": "costIncurredInDollars",

"**RepairHistory.**repairStatus": "repairStatus",

"**RepairHistoryToPartsReplacedMapping.**partsReplaced": [

{

"**RepairHistoryToPartsReplacedMapping.**partId": "partId",

"**[JOIN AircraftPart]**.partName": "partName"

}, ...

],

"**RepairHistoryToPartsRepairedMapping.**partsRepaired": [

{

"**RepairHistoryToPartsRepairedMapping.**partId": "partId",

"**[JOIN AircraftPart].**partName": "partName"

}, ...

]

}

**GET call**

**Endpoint**: /aircraft\_parts

**Response**:

[

{

"**AircraftPart.**partId": "partId",

"**AircraftPart.**partName": "partName",

"**AircraftPart.**aircraftLinkedTo": "aircraftLinkedTo"

}, ...

]

**POST call**

**Endpoint**: /ground\_staff/{ground\_staff\_id}/repair\_requests/ {maintenance\_requests\_id}/image\_tagging/{image\_id}

// need more clarity on this point to see how to handle images

**Request payload:**

{

"imageId": "imageId",

"partId": "partId"

}