

1. Manager Screen

1.1 Approach Plan

1.1.1 Requirement

- Create manager grid to show employees with skills data based on current logged in manager.
- Place request lock button for each rows in manager grid to raise request to Work Force Manager(wfm). Once Request lock button is clicked, Soft lock Request Confirmation pop up appears. Add a request based on softlock table.

1.1.2 Manager Grid

1.1.2.1 Backend

Table	Available Fields
Skills	Skillid , name
Skillmap	employee_id, skillid
Employees	employee_id,name,status,manager,wfm_manager,email,lockstatus,experience and profile_id

Table 1.1 Required Tables for Manager Grid

Condition: lockstatus= not_requested and manager=logged in username

Expected Query:

```
SELECT
e.employee_id AS 'EmployeeId'
,e.name AS 'Name'
,GROUP_CONCAT(s.name) AS 'Skills'
,e.experience AS 'Experience'
,e.manager AS 'Manager'
FROM employees e
INNER JOIN
Skillmap m ON m.employee_id=e.employee_id
INNER JOIN
Skills s ON s.Skillid =m.skillid
WHERE
lockstatus="not_requested"
AND manager="faizal"
GROUP BY e.employee_id
```

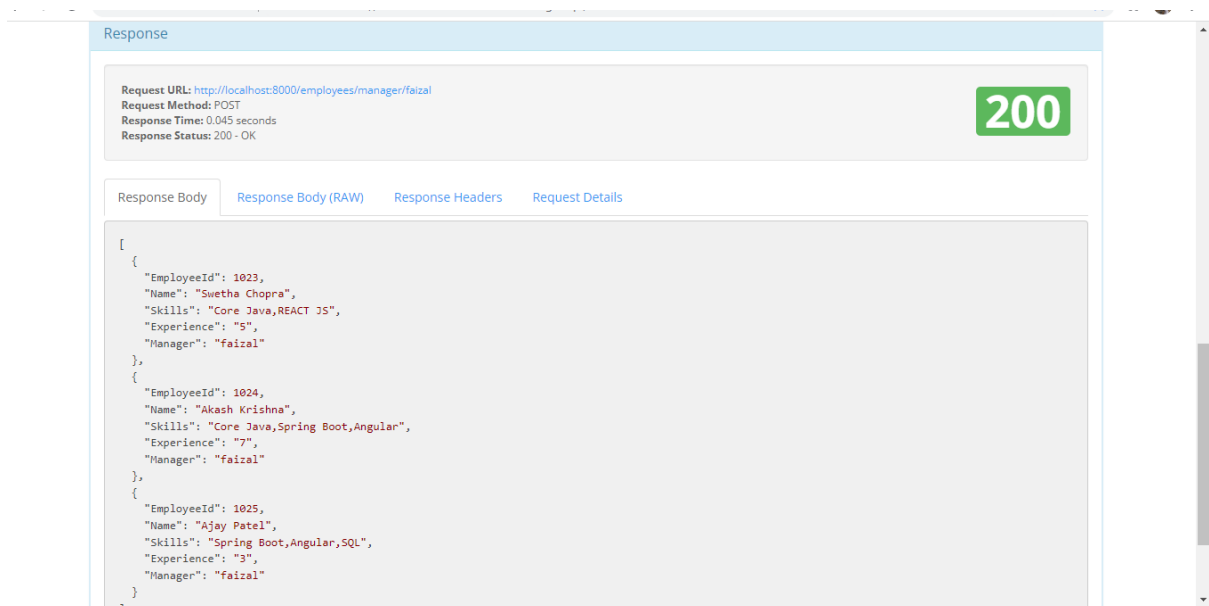
1.1.2.2 API Implementation

- Renamed skillmap to skillmaps as sequelize takes plural name for table name
- Added employee_id as primary key in employees table as its missing.

```
ALTER TABLE `wfm`.`skillmap`  
RENAME TO `wfm`.`skillmaps`;
```

```
ALTER TABLE `wfm`.`employees`  
ADD PRIMARY KEY (`employee_id`);
```

Sample Response:



The screenshot displays a REST client interface with a 'Response' tab selected. The response details are as follows:

- Request URL:** `http://localhost:8000/employees/manager/faizal`
- Request Method:** POST
- Response Time:** 0.045 seconds
- Response Status:** 200 - OK

The response status '200' is highlighted in a green box. Below the details, the 'Response Body' tab is active, showing a JSON array of three employee objects:

```
[  
  {  
    "EmployeeId": 1023,  
    "Name": "Swetha Chopra",  
    "Skills": "Core Java,REACT JS",  
    "Experience": "5",  
    "Manager": "faizal"  
  },  
  {  
    "EmployeeId": 1024,  
    "Name": "Akash Krishna",  
    "Skills": "Core Java, Spring Boot, Angular",  
    "Experience": "7",  
    "Manager": "faizal"  
  },  
  {  
    "EmployeeId": 1025,  
    "Name": "Ajay Patel",  
    "Skills": "Spring Boot, Angular, SQL",  
    "Experience": "3",  
    "Manager": "faizal"  
  }  
]
```

1.1.2.3 UI Implementation

- In manager home screen, rendered grid using KendoReact Data Grid plugin
- Pagination support for manager grid is provided

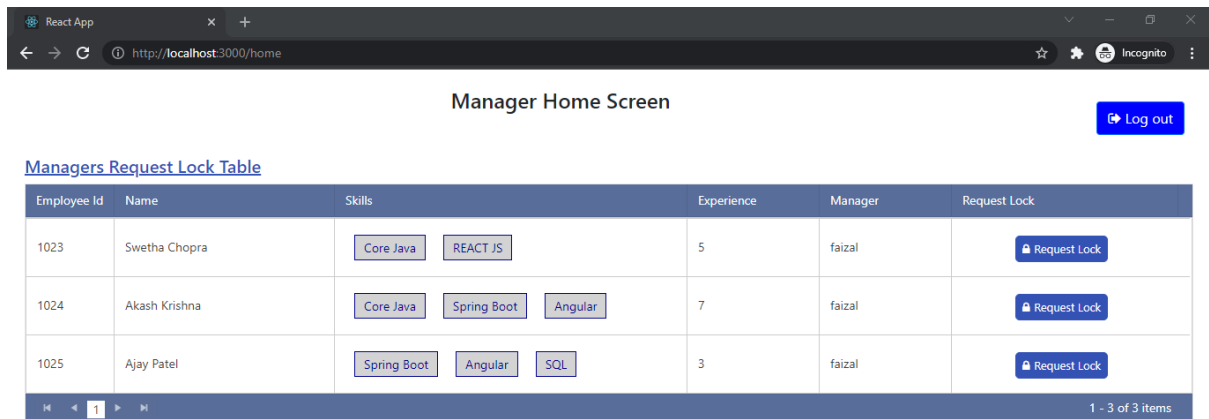


Image1: Manager Grid Screen

1.1.3 Soft Lock Request Confirmation Screen

1.1.3.1 Backend:

Table	Available Fields
softlock	employee_id, manager, reqdate, status, lastupdated, lockid, requestmessage, wfmremark, managerstatus, mgrstatuscomment and mgrlastupdate
employees	employee_id,name,status,manager,wfm_manager,email,lockstatus,experience and profile_id

Table 1.2 Required Tables for Soft Lock Request Confirmation Screen

Query:

- Added foreign reference for employees table in softlock table as follows:

```
ALTER TABLE `wfm`.`softlock`
ADD CONSTRAINT `sl-emp-key`
FOREIGN KEY (`employee_id`)
REFERENCES `wfm`.`employee` (`employee_id`)
```
- Once softlock request raised, requested is inserted into softlocks table and also status updated in employees table for given employee_id

```
insert into softlock(employee_id,manager,reqdate,status,lastupdated,requestmessage)
values(1023,'faizal','2021-12-11','waiting','2021-12-11','I need this resource')
```

```
update employees set lockstatus='request_waiting' where employee_id=1023
```

Sample Response:

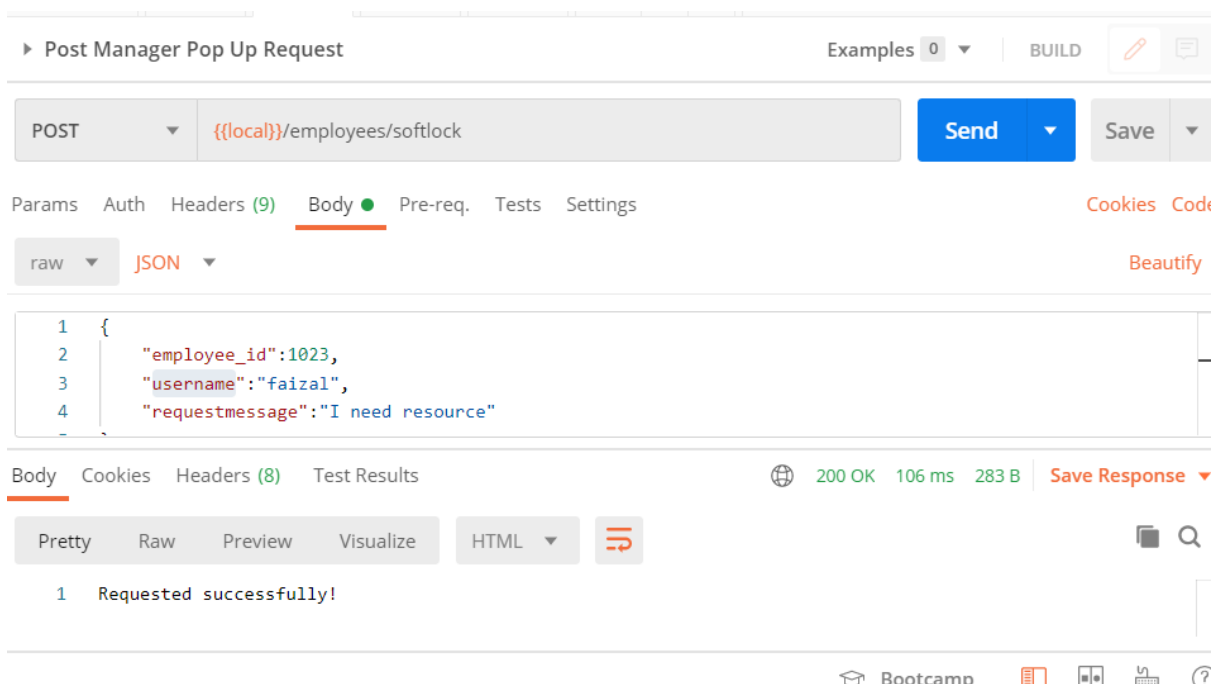


Image 1.1 Sample Response of Softlock request confirmation api

1.1.3.2 UI Implementation

- Once request lock button clicked, soft lock request confirmation pop up appears.
- Clicking on Send Request button, adds softlock request successfully and manager grid data will be reloaded as change in employee state happens.

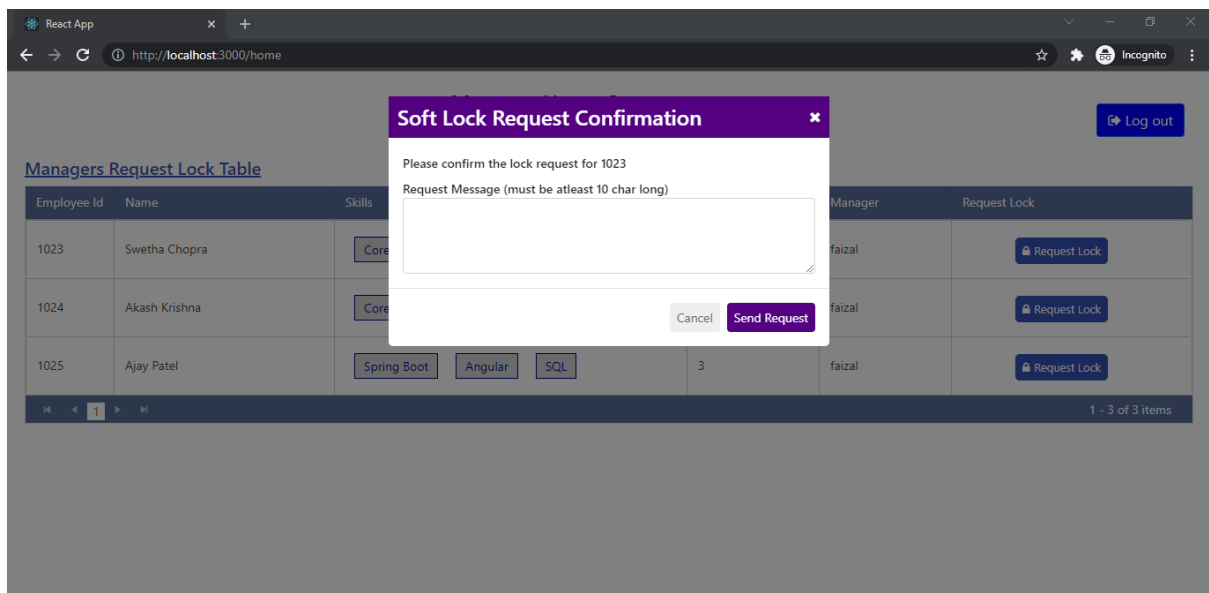


Image2: Send Request Pop Up Screen

- Request message expects atleast 10 characters others shows warning message as follows:

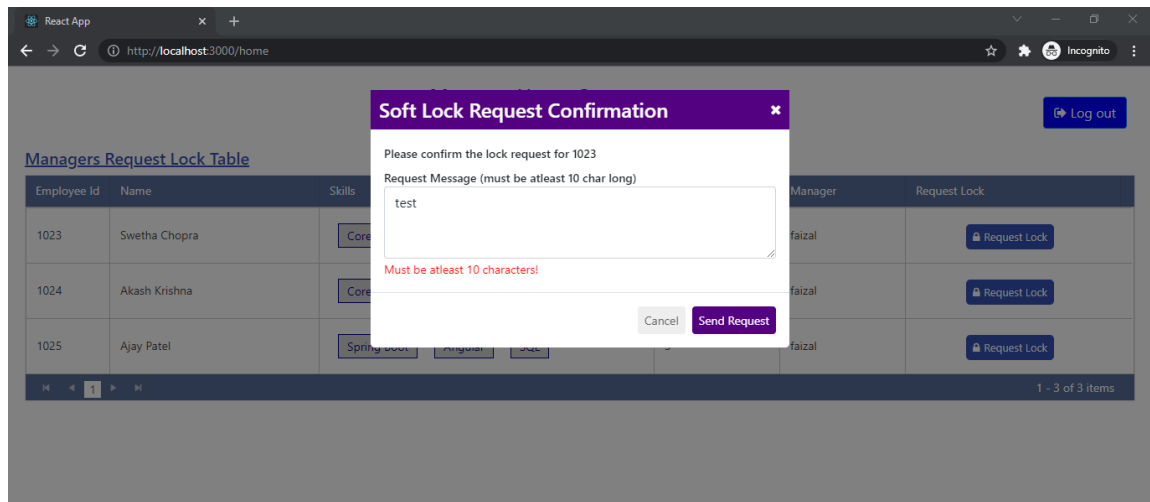


Image3: Send Request Pop Up Screen

2. WFM Screen

1.2 Approach Plan

1.2.1 Requirement

- Create wfm grid to show soft lock requests
- Place view details button on grid to show pop up with softlock request details as read only.
- Once send request is clicked, approve/reject softlock request

1.2.2 WFM Grid

1.2.2.1 Backend:

Table	Available Fields
softlocks	Skillid , name
Employees	employee_id, manager, reqdate, status, lastupdated, lockid, requestmessage, wfmremark, managerstatus, mgrstatuscomment, mgrlastupdate

Expected Query:

```

SELECT s.employee_id, s.manager, s.reqdate, s.requestmessage ,e.wfm_manager
FROM softlocks as s
INNER JOIN employees e
ON s.employee_id=e.employee_id
WHERE wfm_manager= 'lokes' and lockstatus='request_waiting'

```

Sample Response:

REST client interface showing a GET request to `{{local}}/employees/wfm/lokesh` with a successful response (200 OK, 58 ms, 515 B). The response body is a JSON array:

```
[
  {
    "EmployeeId": 1017,
    "Manager": "rohit",
    "reqDate": "2020-05-27",
    "requestmessage": "I Want This Resource",
    "wfm_manager": "lokesh"
  },
  {
    "FmnlveeId": 1019
  }
]
```

1.2.2.2 UI Implementation

- In WFM screen, data rendered in grid using KendoReact Data Grid plugin

WFM Home Screen

[Request Awaiting Approval](#) [Log out](#)

Employee Id	Requestee	Request Date	Employees Manager	Approve Request
1017	rohit	2020-05-27	lokesh	View Details
1019	rohit	2021-12-06	lokesh	View Details

1 - 2 of 2 items

1.2.3 Accept/Reject Soft lock Request

1.2.3.1 Backend:

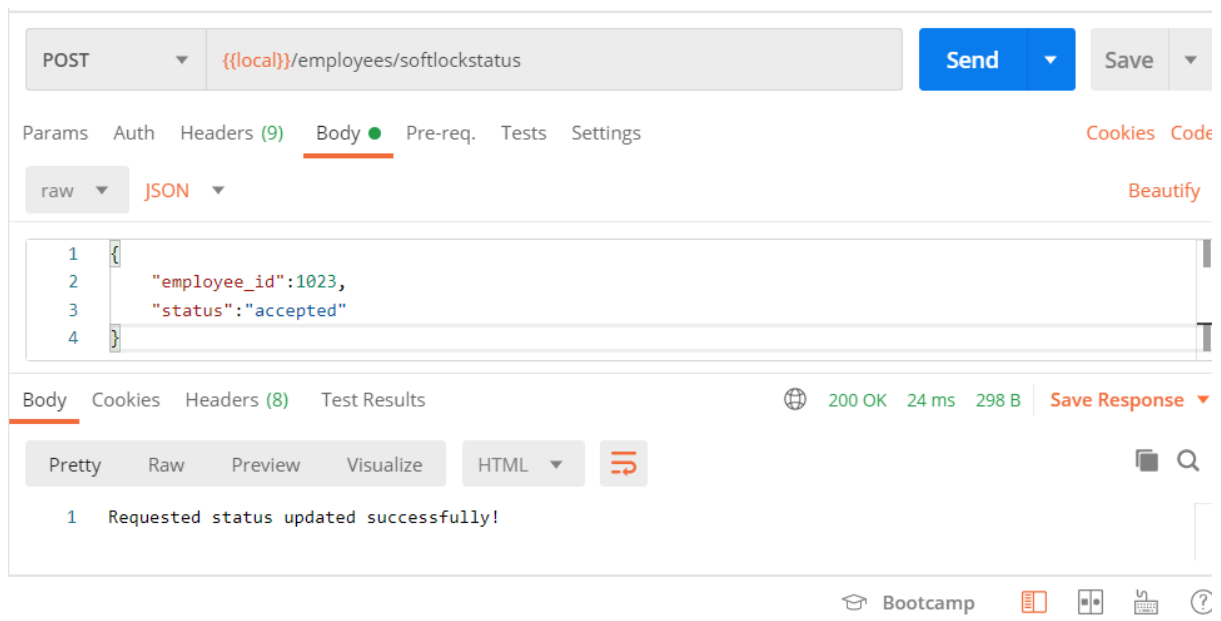
Table	Available Fields
softlocks	Skillid , name
Employees	employee_id, manager, reqdate, status, lastupdated, lockid, requestmessage, wfmremark, managerstatus, mgrstatuscomment, mgrlastupdate

Expected Query:

UPDATE employees SET lockstatus= 'locked' WHERE employee_id=1019

UPDATE softlocks SET managerstatus= 'accepted' WHERE employee_id=1019

Sample Response:



1.2.3.2 UI Implementation

- Click on view details, to accept / reject soft lock request as follows:

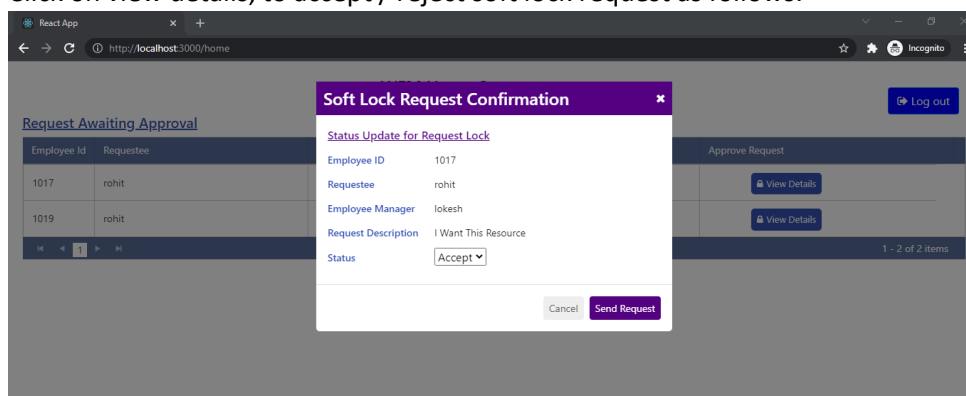


Image 2: Accept/Reject Pop Up Screen

- Once Send Request is clicked, request is accepted/rejected, request status is updated and wfm grid data will be updated as change in employees status happens as follows:

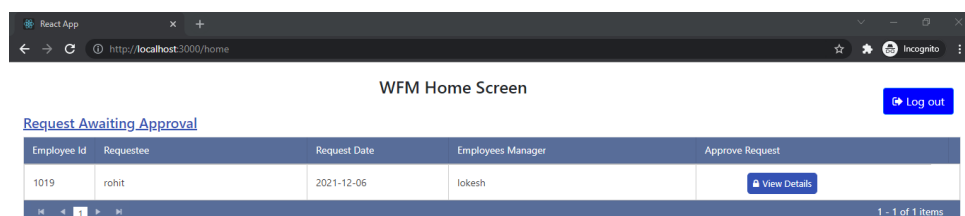


Image 2: WFM after request submit screen