

OUTPUT SCREENSHOTS:

The screenshot displays the 'Rule Engine Management' interface. At the top, the title 'Rule Engine Management' is centered. Below it, a 'Rules List' section shows a table of existing rules:

ID	Rule Name	Rule String
16	Minimum age	age >= 18
17	Department name	department='production'
18	Salary range	salary >= 60000
19	Experience	experience >= 1
20	Department name1	department='marketing'

Below the list are three main sections:

- Create Rule:** Includes fields for 'Rule Name' and 'Rule String', and a 'Create Rule' button.
- Create Attribute:** Includes fields for 'Attribute Name' and 'Data Type' (with 'INT' selected), and a 'Create Attribute' button.
- Modify Rule:** Includes fields for 'Rule ID', 'Old Expression', and 'New Expression', and a 'Modify Rule' button.

Rule engine management UI

This screenshot shows the 'Rule Engine Management' interface after a rule has been created. A success message 'Rule created successfully' is displayed in a dialog box. The 'Rules List' table now includes the newly created rule:

ID	Rule Name	Rule String
17	Department name	department='production'
18	Salary range	salary >= 60000
19	Experience	experience >= 1
20	Department name1	department='marketing'

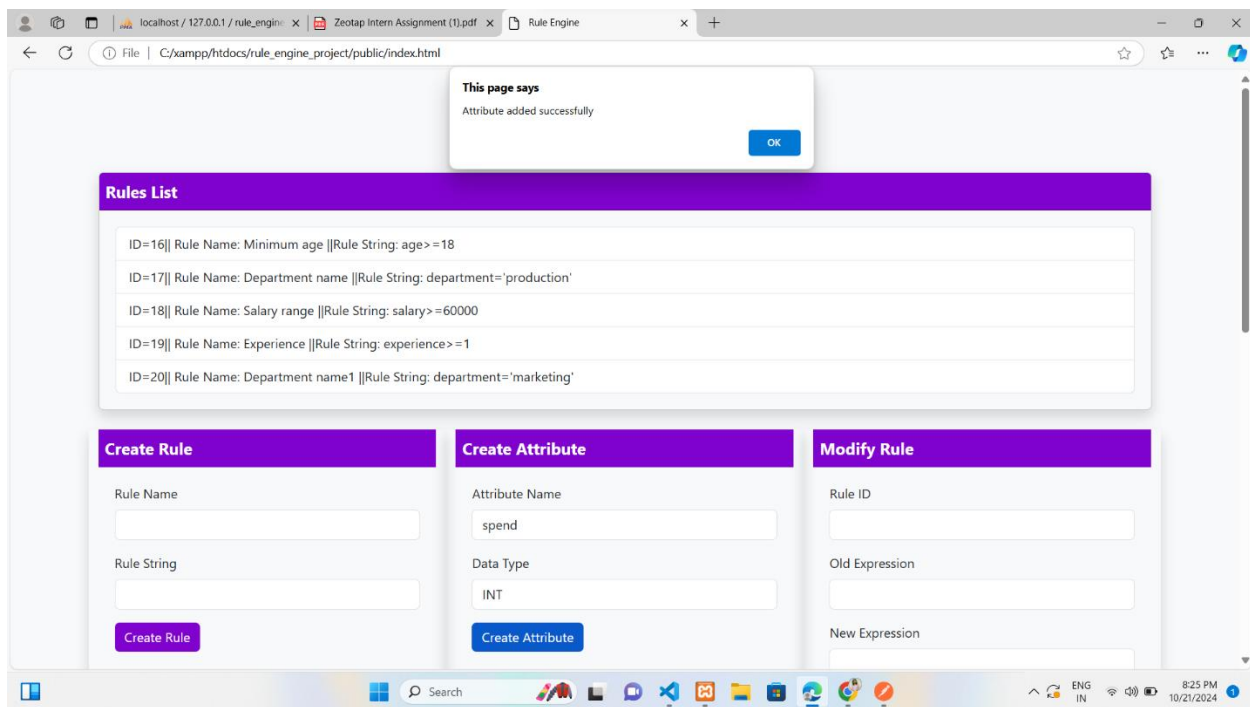
Below the list are three main sections:

- Create Rule:** Includes fields for 'Rule Name' (with 'salary range 1' entered) and 'Rule String' (with 'salary >= 100000' entered), and a 'Create Rule' button.
- Create Attribute:** Includes fields for 'Attribute Name' and 'Data Type' (with 'INT' selected), and a 'Create Attribute' button.
- Modify Rule:** Includes fields for 'Rule ID', 'Old Expression', and 'New Expression', and a 'Modify Rule' button.

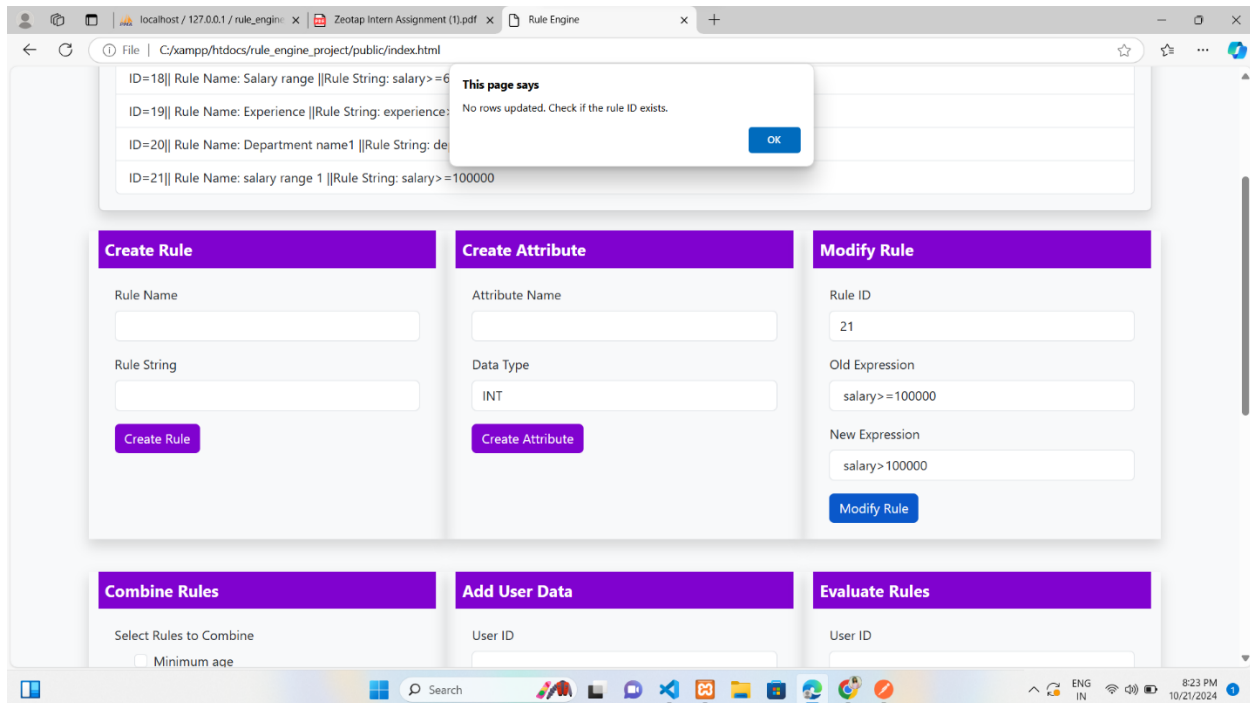
At the bottom, there are three additional sections:

- Combine Rules:** Includes a 'Select Rules to Combine' section with a radio button for 'Minimum age'.
- Add User Data:** Includes a 'User ID' field.
- Evaluate Rules:** Includes a 'User ID' field.

Creation of rule



Creation of attribute



Modification of rules

Rule Engine

File | C:\xampp\htdocs\rule_engine_project\public\index.html

Modify Rule

Combine Rules

Select Rules to Combine

- ☒ Minimum age
- ☐ Department name
- ☒ Salary range
- ☒ Experience
- ☐ Department name1

Select Operator

OR

Combine Rules

```
Combined AST: { "type": "OR", "children": [ { "type": "rule", "name": "Minimum age", "value": "age >= 18" }, { "type": "rule", "name": "Salary range", "value": "salary >= 60000" }, { "type": "rule", "name": "Experience", "value": "experience >= 1" } ] }
```

Add User Data

User ID

Age

Department

salary

experience

Add User Data

Evaluate Rules

User ID

Evaluate

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Combine rules

Rule Engine

File | C:\xampp\htdocs\rule_engine_project\public\index.html

Modify Rule

Combine Rules

Select Rules to Combine

- ☐ Minimum age
- ☐ Department name
- ☐ Salary range
- ☐ Experience
- ☐ Department name1

Select Operator

AND

Combine Rules

Add User Data

User ID

5

Age

22

Department

production

salary

50000

experience

1

Add User Data

Evaluate Rules

User ID

Evaluate

Delete Rule

Delete Attribute

Evaluation Results

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Create new user data

File | C:/xampp/htdocs/rule_engine_project/public/index.html

Modify Rule

Combine Rules

Select Rules to Combine

- ☐ Minimum age
- ☐ Department name
- ☐ Salary range
- ☐ Experience
- ☐ Department name1

Select Operator

AND

Combine Rules

Add User Data

User ID

Age

Department

salary

experience

Add User Data

Evaluate Rules

User ID

1

Evaluate

Rule: Minimum age , Result: Passed

Rule: Department name, Result: Passed

Rule: Salary range, Result: Failed

Rule: Experience, Result: Failed

Rule: Department name1, Result: Failed

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Evaluate rules with user data

localhost / 127.0.0.1 / rule_engine X Zeotap Intern Assignment (1).pdf X Rule Engine

File | C:/xampp/htdocs/rule_engine_project/public/index.html

- ☐ Minimum age
- ☐ Department name
- ☐ Salary range
- ☐ Experience
- ☐ Department name1
- ☐ salary range 1

Select Operator

AND

Combine Rules

This page says

Rule deleted successfully

OK

Department

salary

experience

Add User Data

Delete Rule

Rule Id

21

Delete Rule

Delete Attribute

Attribute Name

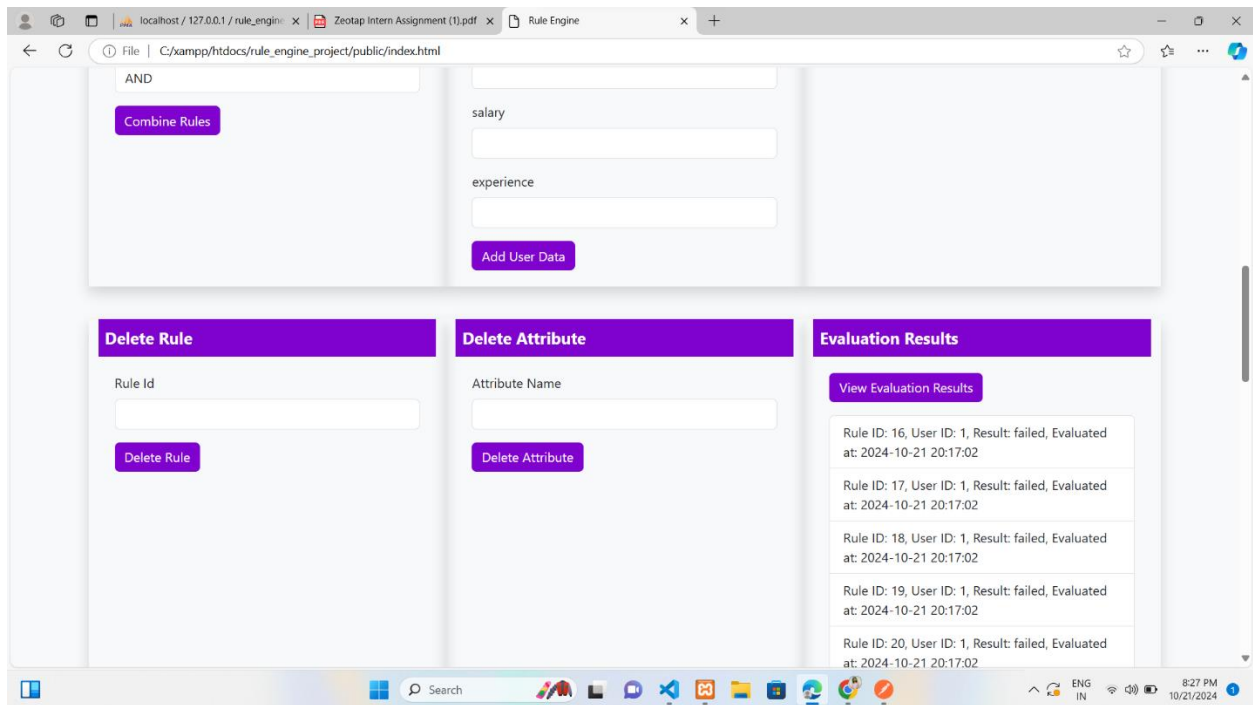
Delete Attribute

Evaluation Results

View Evaluation Results

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Deletion of rule



View evaluation results s