

# Backend API Documentation

## Insert UserExpense

URL: http://localhost:8080/expense/

Request method: POST

Insert UserExpense API is used to take the user data from the frontend and insert it into the expense database if it is a new expense. If it already exists it returns an error.

Example:

```
{  
  "Name": "springbreak",  
  "Category": "food",  
  "Userid": "4",  
  "Amount": "100"  
}
```

## Retrieving UserExpense

URL: http://localhost:8080/expense/get

Request method: GET

Retrieving UserExpense API takes in parameters like the expenseID, name and description and retrieves the respective expense details from the database.

Example:

```
{  
  "Name": "springbreak",  
  "Category": "food",  
  "Userid": "4",  
  "Amount": "100"  
}
```

## Update UserExpense

URL: http://localhost:8080/expense/update

Request method: POST

Update UserExpense API takes the details like the updated amount, expenseId from the frontend and updates the corresponding expense in the database using this API

Example:

```
{
  "Name": "springbreak",
  "Amount": "200"
}
```

### **Delete UserExpense**

URL: <http://localhost:8080/expense/delete>

Request method: DELETE

This is an API which helps us clear the unnecessary expenses from the database. It is a simple DELETE http request which deletes the userExpense when given a particular expenseId.

Example:

```
{
  "Name": "springbreak"
}
```

### **Insert Payment**

URL: <http://localhost:8080/expense/insertpayment>

Request method: POST

Insert Payment API is used when a new Payment has been recorded and needs to be updated in the payment database at the backend. The payment details are sent from the front end in the form of a JSON object and it is stored into the database.

Example:

```
{
  "EID": "4",
  "Paidby": "2"
}
```

### **Delete Payment**

URL: <http://localhost:8080/expense/deletepayment>

Request method: DELETE

Once the Payment has been cleared is not important for this to stay in the database. Once the payment has been cleared by all the users the payment is deleted from the database by calling this API

Example:

```
{  
  "ID": "2"  
}
```