**1. Customer Controller (/customerMain)**

**1. REQUEST**

* **addCustomer (POST /customerMain/addCustomer)**
  + **HTTP Method:** POST
  + **URL:** http://localhost:8080/customerMain/addCustomer
  + **Body (Form-Data):**
    - **Key:** clientName
      * **Value:** (e.g., John Doe)
    - **Key:** clientFatherName
      * **Value:** (e.g., Peter Doe)
    - **Key:** clientAddress
      * **Value:** (e.g., 123 Main St)
    - **Key:** clientPrimaryContact
      * **Value:** (e.g., 9876543210)
    - **Key:** clientSecondaryContact
      * **Value:** (e.g., 8765432109)
    - **Key:** clientCreatedAt
      * **Value:** (e.g., 2025-04-08T22:00:00)
    - **Key:** clientUpdatedAt
      * **Value:** (e.g., 2025-04-08T22:00:00)
    - **Key:** clientRecords
      * **Value:** (e.g., Some initial records)
    - **Key:** proofFile
      * **Type:** File
      * **Value:** Choose a proof document file.
    - **Key:** pictureFile
      * **Type:** File
      * **Value:** Choose a customer picture file.

**1. RESPONSE**

{

"clientId": 3,

"clientName": "John Doe",

"clientFatherName": "Peter Doe",

"clientAddress": "123 Main St",

"clientPrimaryContact": 9876543210,

"clientSecondaryContact": 8765432109,

"clientProof": "http://res.cloudinary.com/dunquczkm/image/upload/v1744143113/ds6ccwp1h876feq2qhyq.png",

"clientPicture": "http://res.cloudinary.com/dunquczkm/image/upload/v1744143119/ygppcuaxyknoqfg7ns1r.png",

"clientCreatedAt": "2025-04-08T22:00:00",

"clientUpdatedAt": "2025-04-08T22:00:00",

"clientRecords": "Some initial records",

"loans": null

}

**2. REQUEST**

* **updateCustomer (PUT /customerMain/updateCustomer/{id})**
  + **HTTP Method:** PUT
  + **URL:** http://localhost:8080/customerMain/updateCustomer/3 (Replace 1 with the actual customer ID)
  + **Body (Form-Data):**
    - **Key:** clientName (Optional)
      * **Value:** (e.g., Updated Shreemadhi)
    - **Key:** clientFatherName (Optional)
      * **Value:** (e.g.,Peter Doe)
    - **Key:** clientAddress (Optional)
      * **Value:** (e.g., 456 Oak Ave)
    - **Key:** clientPrimaryContact (Optional)
      * **Value:** (e.g., 9988776655)
    - **Key:** clientSecondaryContact (Optional)
      * **Value:** (e.g., 8877665544)
    - **Key:** clientCreatedAt (Optional)
      * **Value:** (e.g., 2025-04-08T22:10:00)
    - **Key:** clientUpdatedAt (Optional)
      * **Value:** (e.g., 2025-04-08T22:15:00)
    - **Key:** clientRecords (Optional)
      * **Value:** (e.g., Updated records)
    - **Key:** proofFile (Optional)
      * **Type:** File
      * **Value:** Choose a new proof document file (if updating).
    - **Key:** pictureFile (Optional)
      * **Type:** File
      * **Value:** Choose a new customer picture file (if updating).

**2. RESPONSE**

{

"clientId": 3,

"clientName": "Shreemadhi",

"clientFatherName": "Peter Doe",

"clientAddress": "123 Main St",

"clientPrimaryContact": 9876543210,

"clientSecondaryContact": 8765432109,

"clientProof": "http://res.cloudinary.com/dunquczkm/image/upload/v1744143113/ds6ccwp1h876feq2qhyq.png",

"clientPicture": "http://res.cloudinary.com/dunquczkm/image/upload/v1744143469/of8ez5bsvmk1w5y4d7xf.png",

"clientCreatedAt": "2025-04-08T22:00:00",

"clientUpdatedAt": "2025-04-08T22:00:00",

"clientRecords": "records",

"loans": []

}

**3. REQUEST**

* **getCustomer (GET /customerMain/getCustomer/{id})**
  + **HTTP Method:** GET
  + **URL:** http://localhost:8080/customerMain/getCustomer/1 (Replace 1 with the actual customer ID)
  + **Body:** None

**3. RESPONSE**

{

"clientId": 3,

"clientName": "Shreemadhi",

"clientFatherName": "Peter Doe",

"clientAddress": "123 Main St",

"clientPrimaryContact": 9876543210,

"clientSecondaryContact": 8765432109,

"clientProof": "http://res.cloudinary.com/dunquczkm/image/upload/v1744143113/ds6ccwp1h876feq2qhyq.png",

"clientPicture": "http://res.cloudinary.com/dunquczkm/image/upload/v1744143469/of8ez5bsvmk1w5y4d7xf.png",

"clientCreatedAt": "2025-04-08T22:00:00",

"clientUpdatedAt": "2025-04-08T22:00:00",

"clientRecords": "records",

"loans": []

}

**4. REQUEST**

* **getAllCustomers (GET /customerMain/getAllCustomers)**
  + **HTTP Method:** GET
  + **URL:** http://localhost:8080/customerMain/getAllCustomers
  + **Body:** None

**4. RESPONSE**

[

{

"clientId": 2,

"clientName": "jagadeesh",

"clientFatherName": "kumar",

"clientAddress": "vengaivasal",

"clientPrimaryContact": 6385460420,

"clientSecondaryContact": 8610970392,

"clientProof": "http://res.cloudinary.com/dunquczkm/image/upload/v1744044545/snoeceillsszbbkxv4ne.png",

"clientPicture": "http://res.cloudinary.com/dunquczkm/image/upload/v1744044551/vida7bfexs4o8grnrpkc.png",

"clientCreatedAt": null,

"clientUpdatedAt": null,

"clientRecords": "Active",

"loans": [

{

"loanId": 1,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": null,

"itemReturnDate": null,

"loanPendingInterestAmount": 10000.0,

"loanPendingPrincipalAmount": 80000.0,

"loanPendingTotalAmount": 90000.0,

"itemStatus": "Active"

}

]

},

{

"clientId": 3,

"clientName": "Shreemadhi",

"clientFatherName": "Peter Doe",

"clientAddress": "123 Main St",

"clientPrimaryContact": 9876543210,

"clientSecondaryContact": 8765432109,

"clientProof": "http://res.cloudinary.com/dunquczkm/image/upload/v1744143113/ds6ccwp1h876feq2qhyq.png",

"clientPicture": "http://res.cloudinary.com/dunquczkm/image/upload/v1744143469/of8ez5bsvmk1w5y4d7xf.png",

"clientCreatedAt": "2025-04-08T22:00:00",

"clientUpdatedAt": "2025-04-08T22:00:00",

"clientRecords": "records",

"loans": []

}

]

**5. REQUEST**

* **deleteCustomer (DELETE /customerMain/deleteCustomer/{id})**
  + **HTTP Method:** DELETE
  + **URL:** http://localhost:8080/customerMain/deleteCustomer/1 (Replace 1 with the actual customer ID)
  + **Body:** None

**5. RESPONSE**Deleted successfully

**2. Loan Controller (/loanMain)**

**1.REQUEST**

* **addLoan (POST /loanMain/addLoan/{customerId})**
  + **HTTP Method:** POST
  + **URL:** http://localhost:8080/loanMain/addLoan/3 (Replace 3 with the actual customer ID)
  + **Body (Form-Data):**
    - **Key:** ownerName
      * **Value:** (e.g., Jane Doe)
    - **Key:** ownerContactNumber
      * **Value:** (e.g., 7788990011)
    - **Key:** createdDate
      * **Value:** (e.g., 2025-04-08T22:05:00)
    - **Key:** itemValue
      * **Value:** (e.g., 1000.00)
    - **Key:** itemLoanValue
      * **Value:** (e.g., 800.00)
    - **Key:** itemInterestPercentage
      * **Value:** (e.g., 10.0)
    - **Key:** itemInterestPeriod
      * **Value:** (e.g., 30)
    - **Key:** itemLoanDate
      * **Value:** (e.g., 2025-04-09T10:00:00)
    - **Key:** itemReturnDate
      * **Value:** (e.g., 2025-05-09T10:00:00)
    - **Key:** itemStatus
      * **Value:** (e.g., Pending)
    - **Key:** itemPictureFile
      * **Type:** File
      * **Value:** Choose an image file of the item.

**1.RESPONSE**

{

"loanId": 2,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": "2025-04-09T10:00:00",

"itemReturnDate": "2025-05-09T10:00:00",

"loanPendingInterestAmount": 10000.0,

"loanPendingPrincipalAmount": 80000.0,

"loanPendingTotalAmount": 90000.0,

"itemStatus": "Active",

"customer": {

"clientId": 3,

"clientName": "John Doe",

"clientFatherName": "Peter Doe",

"clientAddress": "123 Main St",

"clientPrimaryContact": 9876543210,

"clientSecondaryContact": 8765432109,

"clientProof": "http://res.cloudinary.com/dunquczkm/image/upload/v1744144153/glskasqluniyxxjlrzct.png",

"clientPicture": "http://res.cloudinary.com/dunquczkm/image/upload/v1744144156/p9wpa3ghxhvhyliin1or.png",

"clientCreatedAt": "2025-04-08T22:00:00",

"clientUpdatedAt": "2025-04-08T22:00:00",

"clientRecords": "Some initial records",

"loans": [

{

"loanId": 2,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": "2025-04-09T10:00:00",

"itemReturnDate": "2025-05-09T10:00:00",

"loanPendingInterestAmount": 10000.0,

"loanPendingPrincipalAmount": 80000.0,

"loanPendingTotalAmount": 90000.0,

"itemStatus": "Active"

}

]

}

}

**2. REQUEST**

* **updateLoan (PUT /loanMain/updateLoan/{id}/{interestAmount}/{principleAmount})**
  + **HTTP Method:** PUT
  + **URL:** http://localhost:8080/loanMain/updateLoan/2/50.0/100.0 (Replace 2 with the actual loan ID, 50.0 with the interest amount paid, and 100.0 with the principal amount paid)
  + **Body:** None

**2. RESPONSE**

{

"loanId": 2,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": "2025-04-09T10:00:00",

"itemReturnDate": "2025-05-09T10:00:00",

"loanPendingInterestAmount": 9950.0,

"loanPendingPrincipalAmount": 79900.0,

"loanPendingTotalAmount": 89850.0,

"itemStatus": "Active",

"customer": {

"clientId": 4,

"clientName": "John Doe",

"clientFatherName": "Peter Doe",

"clientAddress": "123 Main St",

"clientPrimaryContact": 9876543210,

"clientSecondaryContact": 8765432109,

"clientProof": "http://res.cloudinary.com/dunquczkm/image/upload/v1744144153/glskasqluniyxxjlrzct.png",

"clientPicture": "http://res.cloudinary.com/dunquczkm/image/upload/v1744144156/p9wpa3ghxhvhyliin1or.png",

"clientCreatedAt": "2025-04-08T22:00:00",

"clientUpdatedAt": "2025-04-08T22:00:00",

"clientRecords": "Some initial records",

"loans": [

{

"loanId": 2,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": "2025-04-09T10:00:00",

"itemReturnDate": "2025-05-09T10:00:00",

"loanPendingInterestAmount": 9950.0,

"loanPendingPrincipalAmount": 79900.0,

"loanPendingTotalAmount": 89850.0,

"itemStatus": "Active"

}

]

} }

**3. REQUEST**

* **getLoan (GET /loanMain/getLoan/{id})**
  + **HTTP Method:** GET
  + **URL:** http://localhost:8080/loanMain/getLoan/2 (Replace 2 with the actual loan ID)
  + **Body:** None

**3. RESPONSE**

{

"loanId": 2,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": "2025-04-09T10:00:00",

"itemReturnDate": "2025-05-09T10:00:00",

"loanPendingInterestAmount": 9950.0,

"loanPendingPrincipalAmount": 79900.0,

"loanPendingTotalAmount": 89850.0,

"itemStatus": "Active",

"customer": {

"clientId": 4,

"clientName": "John Doe",

"clientFatherName": "Peter Doe",

"clientAddress": "123 Main St",

"clientPrimaryContact": 9876543210,

"clientSecondaryContact": 8765432109,

"clientProof": "http://res.cloudinary.com/dunquczkm/image/upload/v1744144153/glskasqluniyxxjlrzct.png",

"clientPicture": "http://res.cloudinary.com/dunquczkm/image/upload/v1744144156/p9wpa3ghxhvhyliin1or.png",

"clientCreatedAt": "2025-04-08T22:00:00",

"clientUpdatedAt": "2025-04-08T22:00:00",

"clientRecords": "Some initial records",

"loans": [

{

"loanId": 2,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": "2025-04-09T10:00:00",

"itemReturnDate": "2025-05-09T10:00:00",

"loanPendingInterestAmount": 9950.0,

"loanPendingPrincipalAmount": 79900.0,

"loanPendingTotalAmount": 89850.0,

"itemStatus": "Active"

}

]

}

}

**4. REQUEST**

* **getAllLoans (GET /loanMain/getAllLoans)**
  + **HTTP Method:** GET
  + **URL:** http://localhost:8080/loanMain/getAllLoans
  + **Body:** None

**4. RESPONSE**

[

{

"loanId": 1,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": null,

"itemReturnDate": null,

"loanPendingInterestAmount": 10000.0,

"loanPendingPrincipalAmount": 80000.0,

"loanPendingTotalAmount": 90000.0,

"itemStatus": "Active",

"customer": {

"clientId": 2,

"clientName": "jagadeesh",

"clientFatherName": "kumar",

"clientAddress": "vengaivasal",

"clientPrimaryContact": 6385460420,

"clientSecondaryContact": 8610970392,

"clientProof": "http://res.cloudinary.com/dunquczkm/image/upload/v1744044545/snoeceillsszbbkxv4ne.png",

"clientPicture": "http://res.cloudinary.com/dunquczkm/image/upload/v1744044551/vida7bfexs4o8grnrpkc.png",

"clientCreatedAt": null,

"clientUpdatedAt": null,

"clientRecords": "Active",

"loans": [

{

"loanId": 1,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": null,

"itemReturnDate": null,

"loanPendingInterestAmount": 10000.0,

"loanPendingPrincipalAmount": 80000.0,

"loanPendingTotalAmount": 90000.0,

"itemStatus": "Active"

}

]

}

},

{

"loanId": 2,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": "2025-04-09T10:00:00",

"itemReturnDate": "2025-05-09T10:00:00",

"loanPendingInterestAmount": 9950.0,

"loanPendingPrincipalAmount": 79900.0,

"loanPendingTotalAmount": 89850.0,

"itemStatus": "Active",

"customer": {

"clientId": 4,

"clientName": "John Doe",

"clientFatherName": "Peter Doe",

"clientAddress": "123 Main St",

"clientPrimaryContact": 9876543210,

"clientSecondaryContact": 8765432109,

"clientProof": "http://res.cloudinary.com/dunquczkm/image/upload/v1744144153/glskasqluniyxxjlrzct.png",

"clientPicture": "http://res.cloudinary.com/dunquczkm/image/upload/v1744144156/p9wpa3ghxhvhyliin1or.png",

"clientCreatedAt": "2025-04-08T22:00:00",

"clientUpdatedAt": "2025-04-08T22:00:00",

"clientRecords": "Some initial records",

"loans": [

{

"loanId": 2,

"ownerName": "jagadeesh",

"ownerContactNumber": 6385460420,

"createdDate": null,

"itemPicture": null,

"itemValue": 100000.0,

"itemLoanValue": 80000.0,

"itemInterestPercentage": 12.5,

"itemInterestPeriod": 12,

"itemInterestValue": 10000.0,

"itemLoanDate": "2025-04-09T10:00:00",

"itemReturnDate": "2025-05-09T10:00:00",

"loanPendingInterestAmount": 9950.0,

"loanPendingPrincipalAmount": 79900.0,

"loanPendingTotalAmount": 89850.0,

"itemStatus": "Active"

}

]

}

}]

**5. REQUEST**

* **deleteLoan (DELETE /loanMain/deleteLoan/{id})**
  + **HTTP Method:** DELETE
  + **URL:** http://localhost:8080/loanMain/deleteLoan/2 (Replace 2 with the actual loan ID)
  + **Body:** None

**5. RESPONSE**

Deleted successfully

**3. AI Controller (/bot)**

**1.REQUEST**

* **chat (POST /bot/chat)**
  + **HTTP Method:** POST
  + **URL:** http://localhost:8080/bot/chat

**Body (Raw - JSON):** JSON  
{

"prompt": "What is the capital of India?"

}

**1.RESPONSE**

The capital of India is New Delhi.