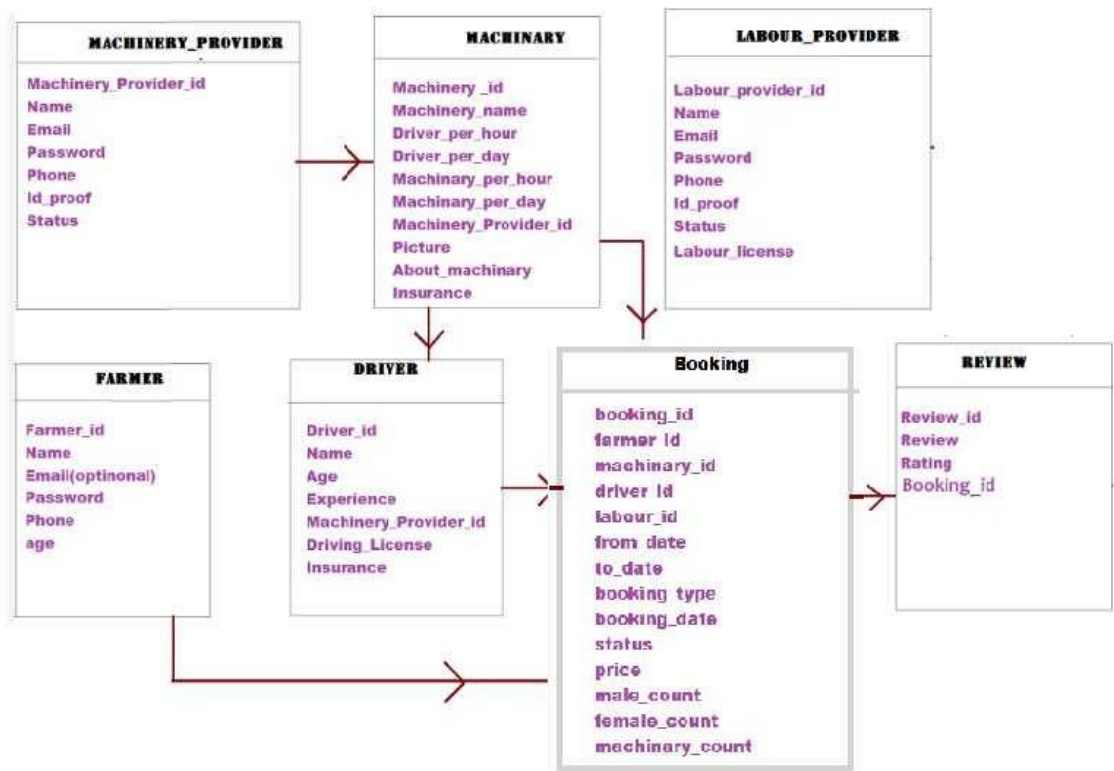


DATABASE DESCRIPTION FOR MODERN AGRICULTURE

Modern Agriculture makes farmers an easy way of forming without buying the equipment. In our project we are using seven collections to manipulate the functionalities. We named the collections as Machinery_provider, Machinery, Farmer, Labour, Labour_provider, Driver, Booking, Review collections.

When the machinery_provider registers and login then these details will be stored in the machinery_provider collection, and the machinery_provider collection stores the information of machinery_provider name, email, password, phone number, id_proof, status. When the details of machinery is entered then those details will be stored in the machinery collection, The machinery collection stores the information provided by the machinery_provider like machinery_name, machinery_per_hour, machinery_per_day, drive_per_hour, driver_per_day, picture of machinery, details about the machinery, insurance of the machinery. When the farmer register and login then these details will be stored in the farmer collection. The farmer collection stores the information of the farmer like name, email, password, phone, age for registration. When the labour provider details are entered then these details will be stored in the labour_provider collection. The labour_provider collection stores the information like labour_provider name, email, password, phone, id_proof, status, labour licence. When the driver details are entered then those details will be stored in the driver collection. The driver collection stores the information about the driver like name, age, experience, machinery_provider_id, driving licence, insurance of the driver. When the booking details are entered then those details are stored in the booking collection. The booking collection stores the information about by the farmer like booking_id, farmer_id, from_date, to_date, booking_type, status, booking_date, farmer_id, machinery_id, driver_id, male_count, female_count, price, labour_id and machinery_count. When the review is given then these details will be stored in the review collection. The review collection stores the information like review, rating, booking_id.

Database Design:



Database Collections:

Booking Storage size: 20.48 kB Documents: 1 Avg. document size: 317.00 B Indexes: 1 Total index size: 20.48 kB	Driver Storage size: 20.48 kB Documents: 1 Avg. document size: 180.00 B Indexes: 1 Total index size: 20.48 kB	Farmer Storage size: 20.48 kB Documents: 1 Avg. document size: 121.00 B Indexes: 1 Total index size: 20.48 kB	Labour_provider Storage size: 20.48 kB Documents: 1 Avg. document size: 203.00 B Indexes: 1 Total index size: 20.48 kB
Machinery Storage size: 20.48 kB Documents: 1 Avg. document size: 313.00 B Indexes: 1 Total index size: 24.58 kB	Machinery_provider Storage size: 20.48 kB Documents: 1 Avg. document size: 170.00 B Indexes: 1 Total index size: 36.86 kB	Review Storage size: 20.48 kB Documents: 1 Avg. document size: 83.00 B Indexes: 1 Total index size: 20.48 kB	

Sample Data:

Machinery_provider:

```
▼ {  
▼  "_id": {  
    "$oid": "63298376d3cb4a71d31cf567"  
  },  
  "Name": "Duke",  
  "Email": "duke@gmail.com",  
  "password": "duke@1234",  
  "Phone": "6034326425",  
  "id_proof": "id_proof.png",  
  "status": "wait_for_verification"  
}
```

Machinery:

```
▼ {  
▼  "_id": {  
    "$oid": "63298628d3cb4a71d31cf56d"  
  },  
  "Machinery_name": "Row_crop_tractor",  
  "Machinery_per_hour": "$10",  
  "Machinery_per_day": "$100",  
  "Driver_per_hour": "$5",  
  "Driver_per_day": "$20",  
  "Picture": "machinery.png",  
  "About_machinery": "This tractor is known for its comfort",  
  "Insurance": "insurance.png",  
▼  "Machinery_provider_id": {  
    "$oid": "63298376d3cb4a71d31cf567"  
  }  
}
```

Labour_provider:

```
▼ {  
▼  "_id": {  
    "$oid": "632989d6d3cb4a71d31cf575"  
  },  
  "Name": "Robert",  
  "Email": "robert@gmail.com",  
  "password": "robert@123",  
  "phone": "16505130514",  
  "id_proof": "id_proof.png",  
  "status": "requested",  
  "labour_licence": "labour_licence.png"  
}
```

Labour:

```
▼ {  
▼  " _id": {  
    "$oid": "632997a0d3cb4a71d31cf578"  
  },  
  "Available_labour_count1": "150",  
  "Male_count": "100",  
  "Female_count": "50",  
  "About_labour": "contribute thier work for more production",  
▼  "Labour_provider_id": {  
    "$oid": "632989d6d3cb4a71d31cf575"  
  }  
}
```

Farmer:

```
▼ {  
▼  " _id": {  
    "$oid": "63299915d3cb4a71d31cf57f"  
  },  
  "Name": "john",  
  "Email": "john@gmail.com",  
  "phone": "14567329858",  
  "password": "john@123",  
  "age": "27"  
}
```

Driver:

```
▼ {  
▼  " _id": {  
    "$oid": "6329998ed3cb4a71d31cf582"  
  },  
  "Name": "james",  
  "Age": "30",  
  "Experience": "7 years",  
  "Driving_licence": "driving_lincence.png",  
  "Insurnace": "insurance.png",  
▼  "Machinary_provider_id": {  
    "$oid": "63298376d3cb4a71d31cf567"  
  }  
}
```

Booking:

```
{
  "_id": {
    "$oid": "635bb4ca5ac7f140c8b0da67"
  },
  "farmer_id": "63299915d3cb4a71d31cf57f",
  "machinary_id": "63298628d3cb4a71d31cf56d",
  "driver_id": "6329998ed3cb4a71d31cf582",
  "labour_id": "632997a0d3cb4a71d31cf578",
  "from_date": "2022-10-28",
  "to_date": "2022-11-10",
  "booking_type": "hall",
  "booking_date": "2022-10-28",
  "price": "$600",
  "male_count": "5",
  "female_count": "5",
  "machinary_count": "10"
}
```

Labour_booking:

```
{
  "_id": {
    "$oid": "63299e64d3cb4a71d31cf596"
  },
  "Required_labour_count": "20",
  "Status": "requested",
  "From_date_time": "2022-09-21 16:21:49",
  "To_date_time": "2022-09-21 18:00:00",
  "Booking_date": "2022-09-20 ",
  "Price_per_Labour": "$10",
  "Farmer_id": {
    "$oid": "63299915d3cb4a71d31cf57f"
  },
  "Labour_provider_id": {
    "$oid": "632989d6d3cb4a71d31cf575"
  }
}
```

Review:

```
{
  "_id": {
    "$oid": "6329a150d3cb4a71d31cf5ad"
  },
  "Review": "good",
  "Rating": "5 stars",
  "Booking_id": {
    "$oid": "634518d7ab3328c742c56219"
  }
}
```