User

```
const mongoose = require("mongoose"),
  passportLocalMongoose = require("passport-local-mongoose");
const userSchema = new mongoose.Schema({
 firstName: {
   type: String,
   trim: true,
 },
 lastName: {
   type: String,
   trim: true,
 username: {
   type: String,
   trim: true,
 },
  email: {
   type: String,
   trim: true,
  },
  password: String,
  joined: { type: Date, default: Date.now() },
  bookIssueInfo: [
      book_info: {
       id: {
          type: mongoose.Schema.Types.ObjectId,
          ref: "Issue",
       },
      },
    },
  ],
  gender: String,
  address: String,
  userSchema.plugin(passportLocalMongoose);
module.exports = mongoose.model("User", userSchema);
```

```
const mongoose = require('mongoose');
const Schema = mongoose.Schema;
const borrowSchema = new Schema({
  borrower: {
    type: new Schema({
      firstName: {
        type: String,
        required: true,
        minlength: 3,
        maxlength: 50,
        trim: true
      },
      lastName: {
        type: String,
        trim: true,
        minlength: 3,
        maxlength: 50,
        required: true
      },
      email: {
        type: String,
        trim: true,
        minlength: 10,
        maxlength: 100
      },
      phone: {
        type: String,
        minlength: 7,
        maxlength: 20,
        required: true
    }),
    required: true
  },
  book: {
    type: new Schema({
      title: {
        type: String,
        required: true,
        trim: true,
        minlength: 5,
        maxlength: 50
```

```
failedReturnFee: {
        type: Number,
        required: true,
        min: 0,
        max: 500
    }),
    required: true
  },
 dateBorrowed: {
   type: Date,
   required: true,
   default: Date.now
  },
 dueDate: {
   type: Date
  },
 dateReturned: {
   type: Date
 },
 penaltyFee: {
   type: Number,
   min: 0
});
exports.Borrow = mongoose.model('Borrow', borrowSchema);
```

## categories

```
const mongoose = require('mongoose');
const Schema = mongoose.Schema;

const categorySchema = new Schema({
   name: {
    type: String,
      required: true,
      trim: true,
      minlength: 5,
      maxlength: 50
   }
});
const mongoose = require('mongoose');
const Schema = mongoose.Schema;
```

```
const categorySchema = new Schema({
  name: {
    type: String,
    required: true,
    trim: true,
    minlength: 5,
    maxlength: 50
  }
});
exports.Category = mongoose.model('Category', categorySchema);
```

book

```
const mongoose = require("mongoose");

const bookSchema = new mongoose.Schema({
    title : String,
    ISBN : String,
    stock : Number,
    author : String,
    description : String,
    category : String,
});

module.exports = mongoose.model("Book", bookSchema);
```

issue

```
const mongoose = require("mongoose");

const issueSchema = new mongoose.Schema({
   book_info : {
      id : {
            type : mongoose.Schema.Types.ObjectId,
            ref : 'Book',
      },
      title : String,
      author : String,
      ISBN : String,
      category : String,
      stock : Number,
      issueDate : {type : Date, default : Date.now()},
      returnDate : {type : Date, default : Date.now() + 7*24*60*60*1000},
```

```
isRenewed : {type : Boolean, default : false},
},

user_id : {
    id : {
        type : mongoose.Schema.Types.ObjectId,
            ref : 'User',
        },
        username : String,
},
});

module.exports = mongoose.model("Issue", issueSchema);
```