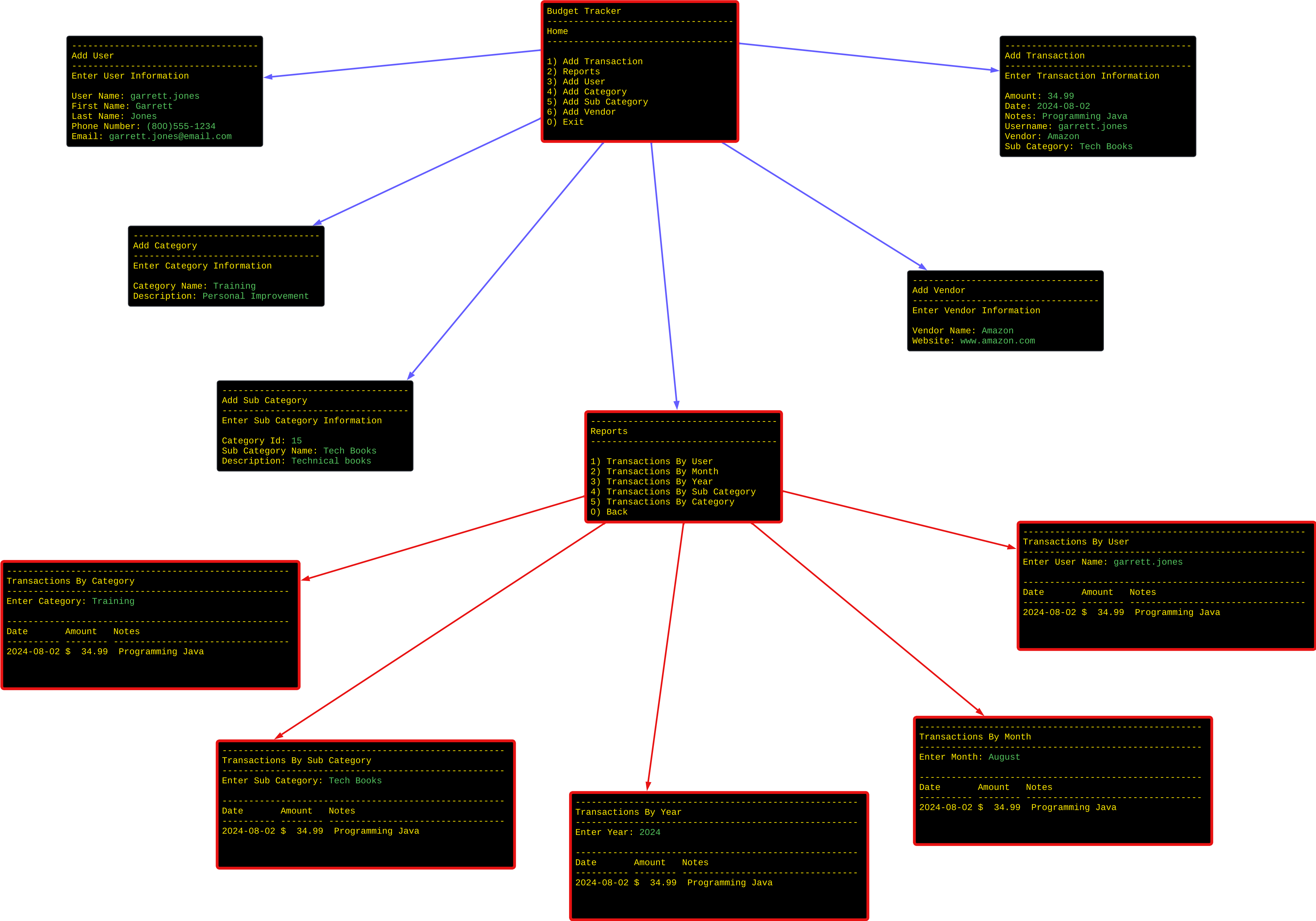
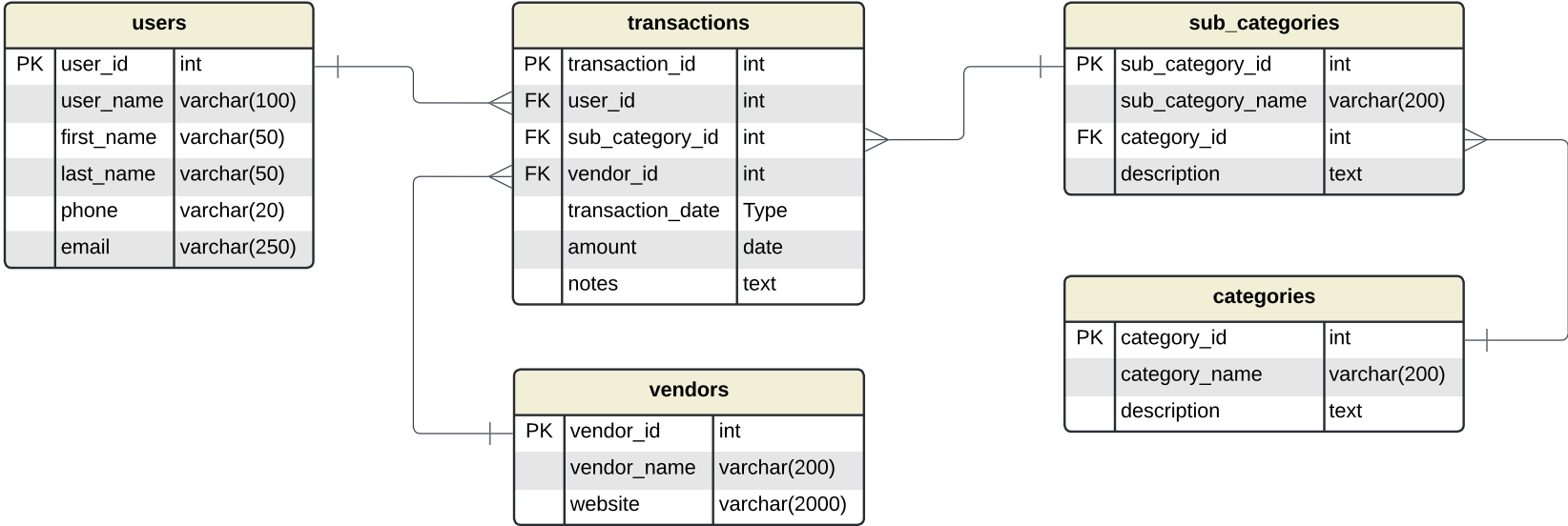


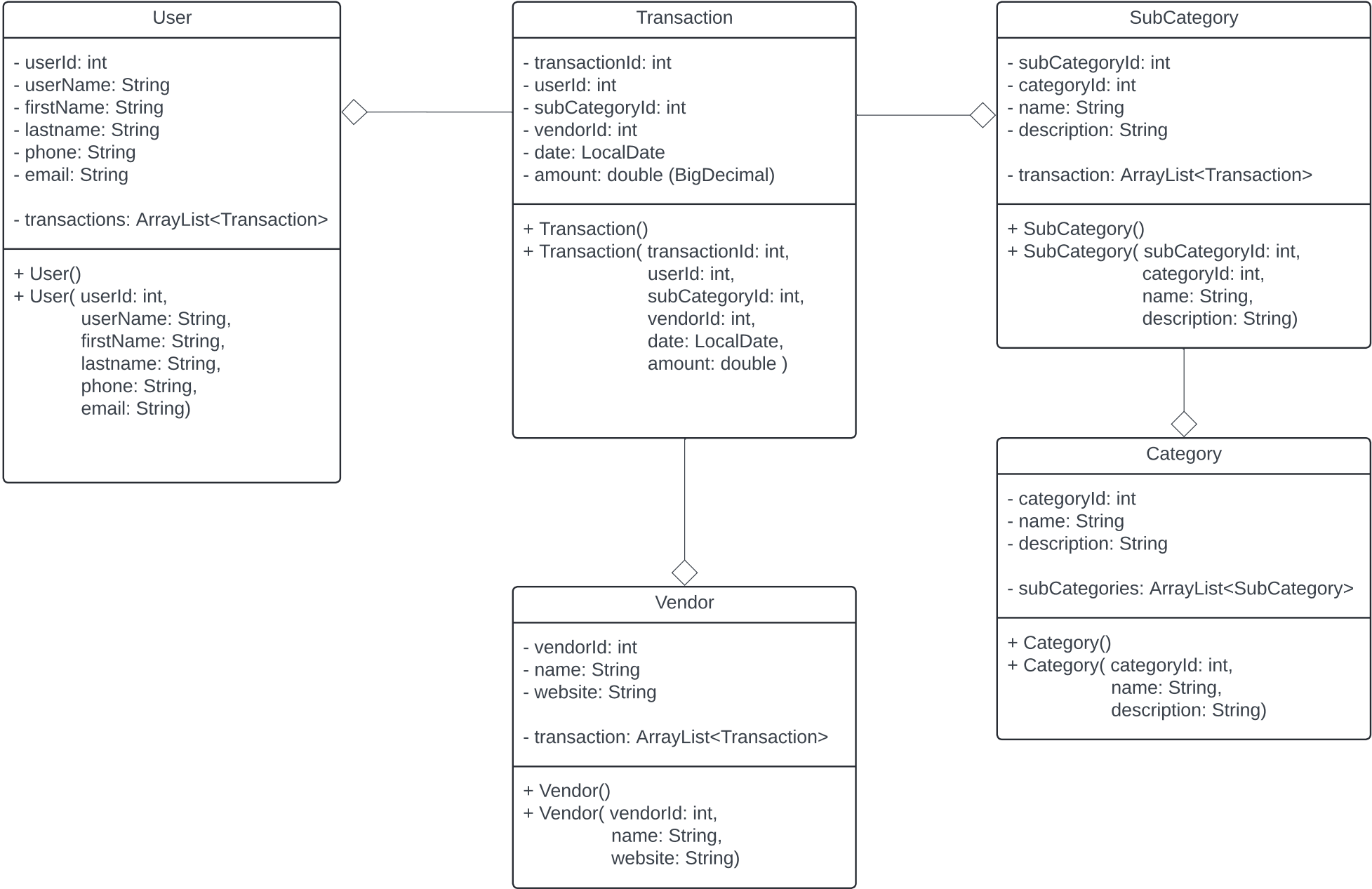
Budget Tracker



Budget Database



Budget DTOs (Models)



Budget DAOs (Data Services)

UserDao

```
+ getAllUsers(): ArrayList<User>
+ getUserById(userId: int): User
+ getUserByName(name: String): User

+ addUser(user: User): void
+ updateUser(user: User): void
+ deleteUser(userId: int): void
```

VendorDao

```
+ getAllVendors(): ArrayList<Vendor>
+ getVendorById(userId: int): Vendor
+ getVendorByName(name: String): Vendor

+ addVendor(vendor: Vendor): void
+ updateVendor(vendor: Vendor): void
+ deleteVendor(vendorId: int): void
```

SubCategoryDao

```
+ getSubCategoriesByCategory(): ArrayList<SubCategory>
+ getSubCategoryById(subCategoryId: int): SubCategory
+ getSubCategoryByName(name: String): SubCategory

+ addSubCategory(subCategory: SubCategory): void
+ updateSubCategory(subCategory: SubCategory): void
+ deleteSubCategory(subCategoryId: int): void
```

TransactionDao

```
+ getTransactionByUser(userId: int): ArrayList<Transaction>
+ getTransactionByMonth(month: int): ArrayList<Transaction>
+ getTransactionByYear(year: int): ArrayList<Transaction>
+ getTransactionBySubCategory(subCategoryId: int): ArrayList<Transaction>
+ getTransactionByCategory(categoryId: int): ArrayList<Transaction>
+ getTransactionById(transactionId: int): Transaction

+ addTransaction(transaction: Transaction): void
+ updateTransaction(transaction: Transaction): void
+ deleteTransaction(transactionId: int): void
```

CategoryDao

```
+ getAllCategories(): ArrayList<Category>
+ getCategoryById(userId: int): Category
+ getCategoryByName(name: String): Category

+ addCategory(category: Category): void
+ updateCategory(category: Category): void
+ deleteCategory(categoryId: int): void
```