1. ERD

A diagram of a checklist

Description automatically generated

Sql code:  
  
CREATE TABLE `books` (

`book\_id` INT AUTO\_INCREMENT,

`title` VARCHAR255,

`authors` VARCHAR255,

PRIMARY KEY (`book\_id`)

);

CREATE TABLE `users` (

`user\_id` INT AUTO\_INCREMENT,

`first\_name` VARCHAR(255),

`last\_name` VARCHAR(255),

`email` VARCHAR(255),

`password` VARCHAR(255),

PRIMARY KEY (`user\_id`)

);

CREATE TABLE `checkouts` (

`checkout\_id` INT AUTO\_INCREMENT,

`book\_id` INT REFERENCES books(book\_id),

`user\_id` INT REFERENCES users(user\_id),

`checkout\_date` DATETIME,

`due\_date` DATETIME,

`actual\_return\_date` DATETIME,

`return\_condition` VARCHAR(255),

PRIMARY KEY (`checkout\_id`)

);

CREATE TABLE `waitlists` (

`waitlist\_id` INT AUTO\_INCREMENT,

`user\_id` INT REFERENCES users(user\_id),

`book\_id` INT REFERENCES books(book\_id),

`list\_position` INT,

`wait\_terminated\_date` DATETIME,

PRIMARY KEY (`waitlist\_id`)

);