

Web application for book inventory management and sharing

Web application which allows users to keep record of their personal library by allowing them to add information about their owned books, either by scanning the ISBN code or inserting them manually. Users should also be able to contact other users in their local area for the purpose of borrowing a desired book. Potentially, this could be extended to other forms of media, such as movies or video games.

Personal scheduler

Application which allows users to manage their personal schedule by setting tasks, either one time or repeating, and move them when necessary. The application should also take into account the travel time for tasks which take place in different locations. Potentially, AI could be used to fit in a new task at a convenient time or to arrange the tasks according to different user criteria such as minimizing travel time, minimizing empty gaps, grouping tasks together based on location or theme, etc.

Web platform for remote 3D printing

Web application which allows users to submit 3d models via the web and have them printed by a vendor and delivered to them. Vendors could create a profile detailing their price range, colour options, delivery time etc. Users could submit a 3d model created using their preferred software and have it seamlessly converted into a standard format, or into a format which the vendor accepts.

Web platform for remote 3-d printing

EPIC: As a vendor, I want to be able to have a profile which presents information about my services.

STORY: As a vendor, I want to be able to create a profile which presents my prices, equipment, delivery time, etc.

Tasks:

- *Add database to store vendor profiles*
- *Add create button and link on homepage*
- *Add form for creating and editing a profile*
- *Implement backend logic for CRUD operations*

STORY: As a vendor, I want to be able to display a range of colours and materials available to the client.

Tasks:

- *Add colour and material picker to vendor profile*
- *Add colour and material information to profile database*
- *Let vendor mark a colour or material as available/unavailable*
- *Implement logic for different prices according to colour and material*

EPIC: As a user I want to be able to submit a 3d model in my preferred format. As a vendor I want to receive a 3d model in a format which my printer supports.

STORY: As a user I want to submit a 3d model in my preferred format.

Tasks:

- *Add model submission page*
- *Add support for the upload of the most popular 3d model file formats*
- *Add model files to database*

STORY: As a vendor, I want to receive a 3d model in a format which my printer supports.

Tasks:

- *Add supported formats information to vendor database*
- *Implement format conversion logic*
- *Sent converted model file to vendor*

EPIC: As a user I want to be able to place an order and pay for it online, using my credit card.

STORY: As a user I want to be able to see an estimated price for my order.

Tasks:

- *Calculate model dimensions*
- *Calculate price based on dimensions, colour, material, delivery cost*
- *Add page to display subtotals and total price to user*

STORY: As a user, I want to be able to place an order and pay for it using my credit card.

Tasks:

- *Add integration platform for online payment*
- *Add order information to database*
- *Add orders page for vendor*
- *Add order to orders page of vendor*