

Design D0: Gives the highest-level view of the project, identifying basic input/output to the system:

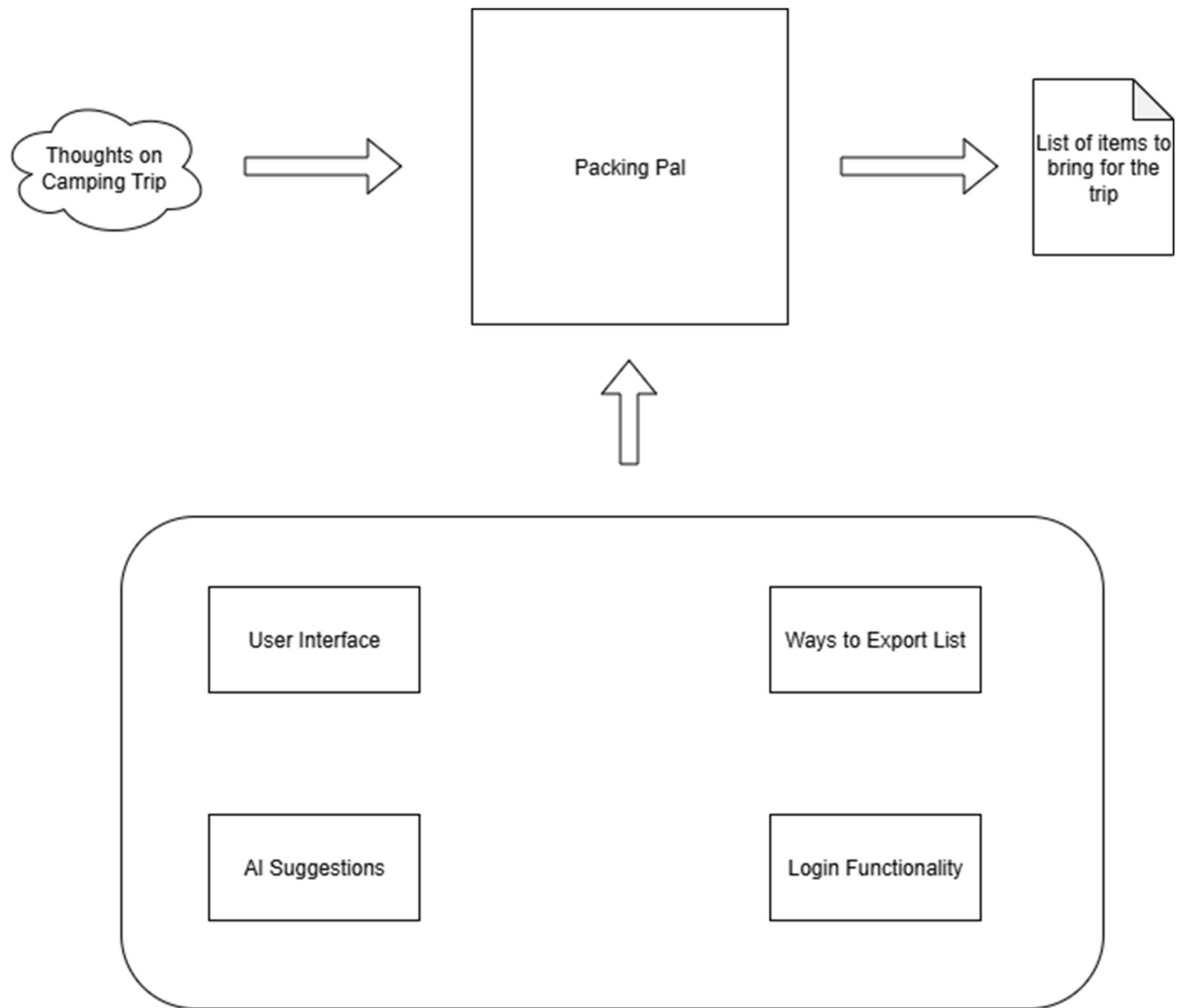
- The cloud symbolizes the thoughts/plans that an end user might have regarding the camping trip they would like to plan
- The square symbolizes the Packing Pal application
- The paper represents the list of items output by the application, which the end user may wish to pack for their upcoming trip



Design D1: Elaborate design of several modules or subsystems given in D0:

The following diagram enumerates several components of the Packing Pal application:

- User Interface
- AI Suggestions
- Ways to export list
- Login Functionality



Design D2: A further elaboration on D1, giving the most details concerning the system:

- User Interface:
 - We will be utilizing React and Next.js for our user interface, which highlights how the application will be built
- AI Suggestions:
 - We will be using the OpenAI API to provide suggestions for the generated list of camping items
- Ways to export list:
 - We would like to support PDF, CSV, Excel file, and images as ways to export the list output
- Login Functionality:
 - We plan on including account/login functionality to be able to retain previous lists, using SQL as well as some encryption for sensitive credentials

