

**InvenTree** <https://inventree.org/>

Build	Description	Project Code	Priority	Part	Progress	Status	Created	Issued by	Responsible	Target
BO0016	Making widgets for SO 0003	-	0	Widget Assembly Variant	0 / 75	Pending	2022-05-25	admin	-	-
BO0014	Making tables for SO 0003	-	0	Blue Square Table	0 / 100	Pending	2022-05-25	admin	-	-
BO0013	Required parts for Build 0010	-	0	TB3   Test Board 3	0 / 50	Pending	2022-05-25	admin	-	-
BO0011	Required parts for Build 0010	-	0	TB1   Test Board 1	25 / 50	Production	2022-05-25	admin	-	-
BO0010	Making a high level assembly part	-	0	MAST   Master Assembly	0 / 50	Pending	2022-05-25	admin	-	-
BO0007	Making red square tables	-	0	Red Square Table	0 / 15	Production	2022-04-29	allaccess	-	-

## Overview

InvenTree is an **open-source** inventory management system, providing *low level stock control and part tracking*. It uses a Python/Django database backend and provides both a **web-based interface** as well as a REST API for interacting with other services. InvenTree also has a powerful plugin system for custom applications and other extensions.

## Parts applicable to my solution

- Web-based application  
*The application will be web-based.*
- Modern, Relatively simple user interface  
*InvenTree offers a relatively simple and intuitive user interface.*

## Parts not applicable to my solution

- Stock control and part tracking specific features  
*I am looking to implement a system that is capable of being far more generalized than just part tracking, although the system will have features for library book tracking.*

**PartKeepr** <https://partkeepr.org/>

The screenshot shows the PartKeepr web application. On the left is a 'Categories' sidebar with a tree view of electronic components like Connectors, Electronics, and Semiconductors. The main area is titled 'Parts List' and shows a table of parts. The table has columns for Name, Description, Storage Location, Status, Condition, Stock, Min. Stock, Avg. Price, Footprint, and Internal ID. The parts are grouped by category, such as 'Root Category > 0 Replimat (4 Part(s))' and 'Root Category > 0 Replimat > Connectors > JST PH (8 Part(s))'.

Name	Description	Storage Location	Status	Condition	Stock	Min. Stock	Avg. Price	Footprint	Internal ID
<b>Root Category &gt; 0 Replimat (4 Part(s))</b>									
100R 0805 1K5	0805W8F1501T5E	REPLIMAT			50 pcs	0 pcs	0.006		1826 (#1ec)
100R 1/8W THT 5%		REPLIMAT			100 pcs	0 pcs	0.006		1827 (#1er)
BAT85		REPLIMAT			12 pcs	0 pcs	0.006		1839 (#1f3)
KW10 Microswitch		REPLIMAT			0 pcs	0 pcs	0.006		1830 (#1eu)
<b>Root Category &gt; 0 Replimat &gt; Connectors (2 Part(s))</b>									
Pin Header 2x4p 90°		REPLIMAT			0 pcs	0 pcs	0.006		1849 (#1ld)
Socket Header 2x4p		REPLIMAT			0 pcs	0 pcs	0.006		1848 (#1lc)
<b>Root Category &gt; 0 Replimat &gt; Connectors &gt; JST PH (8 Part(s))</b>									
JST PH Crimp Contact		REPLIMAT			1270 pcs	0 pcs	0.006		1847 (#1th)
JST PH Housing 2p		REPLIMAT			160 pcs	0 pcs	0.006		1844 (#18)
JST PH Housing 3p		REPLIMAT			140 pcs	0 pcs	0.006		1845 (#1f9)
JST PH Housing 4p		REPLIMAT			370 pcs	0 pcs	0.006		1846 (#1fa)
JST PH THT 2p 90°		REPLIMAT			80 pcs	0 pcs	0.006		1840 (#1f4)
JST PH THT 3p		REPLIMAT			57 pcs	0 pcs	0.006		1843 (#1f7)
JST PH THT 3p 90°		REPLIMAT			40 pcs	0 pcs	0.006		1842 (#1f6)
JST PH THT 4p		REPLIMAT			49 pcs	0 pcs	0.006		1853 (#1fh)
<b>Root Category &gt; 0 Replimat &gt; Connectors &gt; JST XH (9 Part(s))</b>									
XH Crimp Contacts		REPLIMAT			223 pcs	0 pcs	0.006		1831 (#1ev)
XH Housing 2p		REPLIMAT			67 pcs	0 pcs	0.006		1816 (#1eg)
XH Housing 3p		REPLIMAT			57 pcs	0 pcs	0.006		1817 (#1eh)
XH Housing 4p		REPLIMAT			52 pcs	0 pcs	0.006		1818 (#1ei)
XH THT 2p		REPLIMAT			50 pcs	0 pcs	0.006		1815 (#1ef)
XH THT 2p 90°		REPLIMAT			75 pcs	0 pcs	0.006		1811 (#1eb)
XH THT 3p		REPLIMAT			56 pcs	0 pcs	0.006		1813 (#1ed)
XH THT 4p		REPLIMAT			21 pcs	0 pcs	0.006		1814 (#1ee)
XH THT 4p 90°		REPLIMAT			31 pcs	0 pcs	0.006		1812 (#1ec)
<b>Root Category &gt; 0 Replimat &gt; Connectors &gt; MF3.0 (13 Part(s))</b>									

## Overview

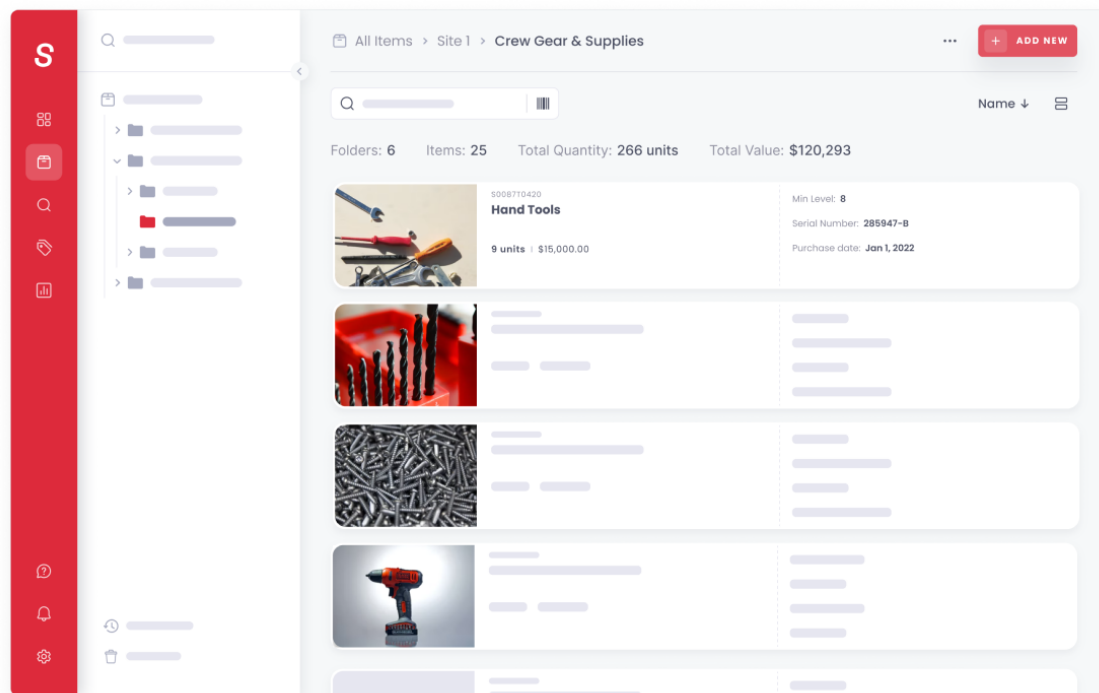
PartKeepr is an open-source inventory management system with a focus on electronic components. It is designed around four main principles:

- Fast Part Searching
- Ability to add complete part database
- Keeping track of stock
- Ease of use

## Parts applicable to my solution

Like PartKeepr, I hope to implement a web-based interface. However, I am using a different approach as my solution will not be tailored specifically to electronic components.

**Sortly** <https://www.sortly.com/solutions/inventory-management-software/>



### Overview

Sortly is a proprietary cloud-based inventory management system with a focus on small businesses and individuals.

It has two plans available, an always free plan with limited functionality and a paid plan with a more complete feature-set.

### Parts applicable to my solution

I hope to implement the following features from Sortly:

- Web based interface
  - Allows for easy access.
- Barcode support
  - Allows end users to print off QR codes to stick to items
  - Which can be scanned in-app to easily perform actions on the item.
- Real-time reporting insights
  - Allows for added insight into usage patterns for particular units.

**Koha**<https://koha-community.org/>

The screenshot shows the Koha library catalog interface. At the top, there's a search bar with 'ISBN' selected and the number '1' entered. Below the search bar, there are links for 'Advanced search', 'Course reserves', 'Authority search', 'Tag cloud', and 'Libraries'. The main content area shows 'Your search returned 7 results.' with a 'Relevance' sort dropdown. On the left, there's a 'Refine your search' sidebar with categories like Availability, Authors, Collections, Reference, Holding libraries, Item types, Locations, General Stacks, Series, and Places. The search results list three items:

- 1. THINK AND GROW RICH**  
by NAPOLEON HILL  
Edition: REVISED  
Publication details: Om Sai Tech Books 2021  
Availability: **Items available for loan:** GURUKUL LIBRARY (10)  
★ ★ ★ ★ ★  
Place hold Save to lists Add to cart
- 2. The art of computer programming / Donald E. Knuth.**  
by Knuth, Donald Ervin, 1938-  
Material type: Text; Format: print; Literary form: Not fiction  
Publication details: Upper Saddle River, N.J. : Addison-Wesley, c2005.  
Availability: **Items available for loan:** Fairview (3).  
★ ★ ★ ★ ★  
Place hold Save to lists Add to cart
- 3. TCP/IP illustrated.**  
by Fall, Kevin R | Stevens, W. Richard  
Series: Addison-Wesley professional computing series  
Edition: 2nd ed. / Kevin R. Fall, W. Richard Stevens.  
Material type: Text; Format: print; Literary form: Not fiction  
Publication details: Upper Saddle River, NJ : Addison-Wesley, c2012.  
★ ★ ★ ★ ★  
Place hold Save to lists Add to cart

**Overview****Parts applicable to my solution****Parts not applicable to my solution**