LIBstick
the future of library label printing

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Head of Information Technologies
Elyachar Central Library
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Agenda

• Introduction ................................ 5 min
• LIBstick functionality ............. 15 min
• Technical overview ................. 10 min
• Join us .................................... 5 min
• Q&A
Introduction

Who am I?

- 2.5 years Head of library information systems
- Software engineer
- Love programing, technology, traveling and sport
Introduction

The Technion

- 4 Nobel prize winners
- 14,000 students
- 1912 founded
- 106 buildings on campus
- 18 academic departments
- 565 faculty members
- 60 research centers

The Technion was founded in 1912 and has 14,000 students, 106 buildings on campus, 18 academic departments, 565 faculty members, and 60 research centers.
Introduction
The Technion from above
Introduction

Technion libraries

1 center library
14 faculty libraries
80 databases
15,000 magazines
12 computer systems
5 developers
LIBstick - the future of library label printing
Why?

- Manual maintenance of 15 local installations spread around the campus
- Security and permission issues to download and install
- Template alignment between libraries
- Difficulties in text editing
- A handful support tickets from library non technical staff
Introduction

Concepts

Usability

Efficiency
Agenda

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• SaaS label printing service for libraries
• Fully integrated with Alma and Aleph (coming soon)
• Powerful design options to create multiple templates in different sizes
• Support all printers
LIBstick functionality

User interface
LIBstick functionality

Roles

Manager
Designer
Maker
• Manage users
• Alma API KEYs
• Google analytics code
• Manage templates
  • Papers
  • Fonts
  • Images
  • Design
### Paper Types

<table>
<thead>
<tr>
<th>Title</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMO 5*4</td>
<td>Published 2018/08/13</td>
</tr>
<tr>
<td>A4 7*6</td>
<td>Published 2019/07/21</td>
</tr>
<tr>
<td>Math A4 3*11</td>
<td>Published 2019/07/21</td>
</tr>
<tr>
<td>MECE A4 12*3</td>
<td>Published 2019/07/21</td>
</tr>
<tr>
<td>CEN-Bind 24*1</td>
<td>Published 2019/07/21</td>
</tr>
</tbody>
</table>

---

Thank you for creating with [WordPress](https://wordpress.org). Version 5.2.2
LIBstick functionality

Design

Home ➔ Edit template: default ➔ Field: mms_id

Choose field type
Alma

Choose Source
mms_id

Choose font
Times

Choose text size
12px

Choose text align
Center

Bold
Off ➔ On

Italic
Off ➔ On

Underline
Off ➔ On

Choose text color
#FF0000

Margins
Top: 0px
Left: 0px

Bottom: 0px
Right: 0px

Regex filter (advanced)
• Create, edit and print
  • Scan barcode
  • Import sets
  • Generate manually
Live demo

https://libraries.technion.ac.il/technion-libstick/
LIBstick functionality
Open set from Alma

Set Details

General Information

Set name: Guy test 1
Description:
Note:

Set content type: Physical Items
Set type: Itemized
Private: Yes
Status: Active
Creation date: 23/07/2019 10:57:27 IDT
Updated by: guyshahaf@8164

Set ID: 6816065160003971
Direct import from Alma to LIBstick with:

Available in:

GitHub
Chrome Web Store
Load Alma set (Content type - 'Physical items')

Enter Alma set id
6816065160003971
<table>
<thead>
<tr>
<th>Title</th>
<th>Subtitle</th>
<th>Barcode</th>
</tr>
</thead>
<tbody>
<tr>
<td>The new chemistry</td>
<td>From Potter</td>
<td>103</td>
</tr>
<tr>
<td>Ceramic science for the potter</td>
<td></td>
<td>104</td>
</tr>
<tr>
<td>Harry Potter and the deadly hallows</td>
<td></td>
<td>105</td>
</tr>
<tr>
<td></td>
<td></td>
<td>106</td>
</tr>
<tr>
<td>Harry Potter and the prisoner of Azkaban</td>
<td>Harry Potter and the Chamber of Secrets</td>
<td>109</td>
</tr>
<tr>
<td></td>
<td>Harry Potter and the goblet of fire</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>Harry Potter and the Half-Blood Prince</td>
<td>111</td>
</tr>
<tr>
<td></td>
<td></td>
<td>112</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Software as a service</th>
<th>Security</th>
<th>Single page application</th>
<th>Model view controller</th>
<th>Material Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Part of the move to cloud trend</td>
<td>• Secured domain - HTTPS</td>
<td>• Dynamically rewriting the current page</td>
<td>• Architectural pattern for user interfaces</td>
<td>• Design language developed by Google</td>
</tr>
<tr>
<td>• Centrally hosted</td>
<td>• Trusted hosting</td>
<td>• Improved user experience</td>
<td>• Divides an application into three parts</td>
<td>• Expanding on the &quot;card&quot; motifs</td>
</tr>
<tr>
<td>• Accessed via a web browser</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Technical overview

Server side technologies

1. Linux machine
2. Apache server
3. MySQL
4. phpMyAdmin
5. WordPress
Technical overview
Client side technologies

**HTML**
- Constant content
- Most HTML generated dynamically

**CSS**
- Materialize
- Custom classes
- Most complex and time consuming

**JavaScript**
- Object oriented
- jQuery library

**AJAX**
- Asynchronous JavaScript and XML
- Communicate with the server
• Alma exposes an impressive set of REST APIs

• Integration input:
  • Region
  • APIKEY – read only
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• User friendly
• Simple
• Customizable
• Automatic
The Technion library will charge for:

- Support for institutes
- Periodically updates
- Keep LIBstick service alive
https://libraries.technion.ac.il/libstick
libstick@technion.ac.il
LIBstick
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Any questions?
Thanks
Thank You
for your attention

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