

CRIS or Crisis?: How Did We Build a CRIS CRM System to Support Inquiries from Researchers?

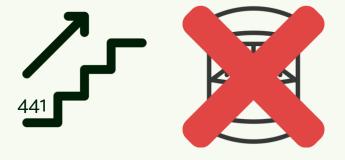
Ruhama Amouyal





Pyramidenkogel Tower

How to climb up?



How to climb down?





Who am I?

I'm Ruhama Amouyal

Computing Systems & Technological Applications Coordinator at Bar-Ilan University

- ◆ B.A. Internet Technologies and Information (Bar-Ilan University)
- M.A. Knowledge Management and Organizational Information (Bar-Ilan University)
- ◆ Academic Course in UX Design (Netcraft Academy)





Agenda



What is a CRIS?



Challenges



Development of the CRIS CRM System



How to Get Started?



What is a CRIS?

CRIS is a Current Research Information System

- Reduces the manual workload across the entire research function
- ✓ Enable transparency of publications and data
- Reduces duplication of data entry
- Give academic institutions more control over their own research, profiles, and output data.



What is a CRIS?

Examples of CRIS Platforms:

System	Description	Company
<u>Pure</u>	Proprietary adaptable research information management system	Elsevier ELSEVIER
Converis	Proprietary research	Clarivate
	information system by Clarivate	© Clarivate [™]
Symplectic	Research information	Digital Science
	system supporting Open Access workflows	# DIGITAL ::: science
<u>Haplo</u>	Closed source development Hamiltonian platform for information applications. In the process of being open sourced	Haplo
		# Haplo



Why do we need this?

- Help researchers manage their profiles and publications efficiently
- Guide researchers to add publications in different ways
- Support and monitor the academic activity of researchers
- Give researchers an initial training to master the management of their profiles
- Offer technical support to perform an action or resolve an issue

Vegetarian ideology in Talmudic literature and traditional biblical exegesis

Shemesh, Y., 2010, *Genesis.* p. 107-127 21 p.

Research output: Chapter in Book/Report/Conference proceeding > Chapter

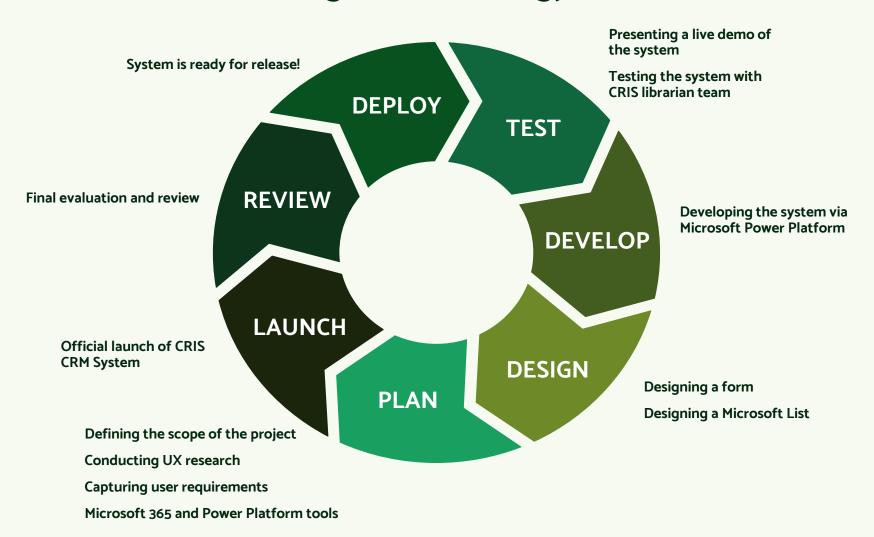
Vegetarian Ideology in Talmudic Literature and Traditional Biblical Exegesis

Shemesh, Y., 2010, Minneapolis: Fortress Press. Shemesh, Y. (ed.). p. 107-127 Research output: Chapter in Book/Report/Conference proceeding > Chapter > peer-review





Agile Methodology

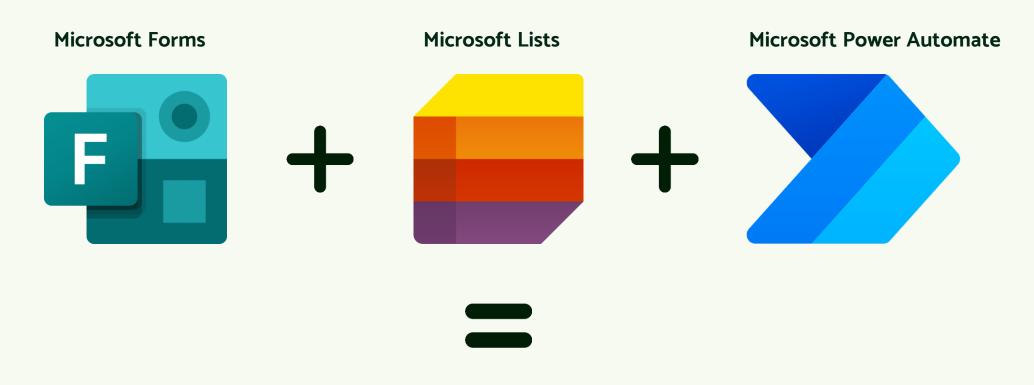


Plan

- Define what is the purpose of the CRIS CRM System
- Conduct user interviews and gather user requirements
- Decide which librarian(s) will be responsible for each department(s), faculty(ies), and study program(s)
- Collect and define the most popular type of applications in the form
- Choose Microsoft 365 and Power Platform tools



Microsoft 365 and Power Platform tools



CRIS CRM System



Design

- Design an applications form for faculty members and researchers
- Ask general questions and define which fields are required





Design

- Add a list of all the faculties, departments, and study programs at Bar-llan University
- Create a list of 14 multiple choice types of applications (!)

4. Faculty / Department / Study Pro	ogram * 🗔
Select your answer	~
5. Active Personal Email Address *	
Enter your answer	
6. Phone Number 🗔	
Enter your answer	
7. Type of Application * 🗔	
Personal profile update, for examp	ole: Name, photo, link to personal website, and more
Identifiers update: ORCID, Scopus	ID, Researcher ID
Add publication via import candida	ates
Add publication via BibTEX or RIS	files
Add publication by manual typing	
Edit or correction of publication in	personal profile
Remove publication from personal	I profile or delete duplicate publication



Design

Design

 Allow researchers to add a description of the application and upload a screenshot

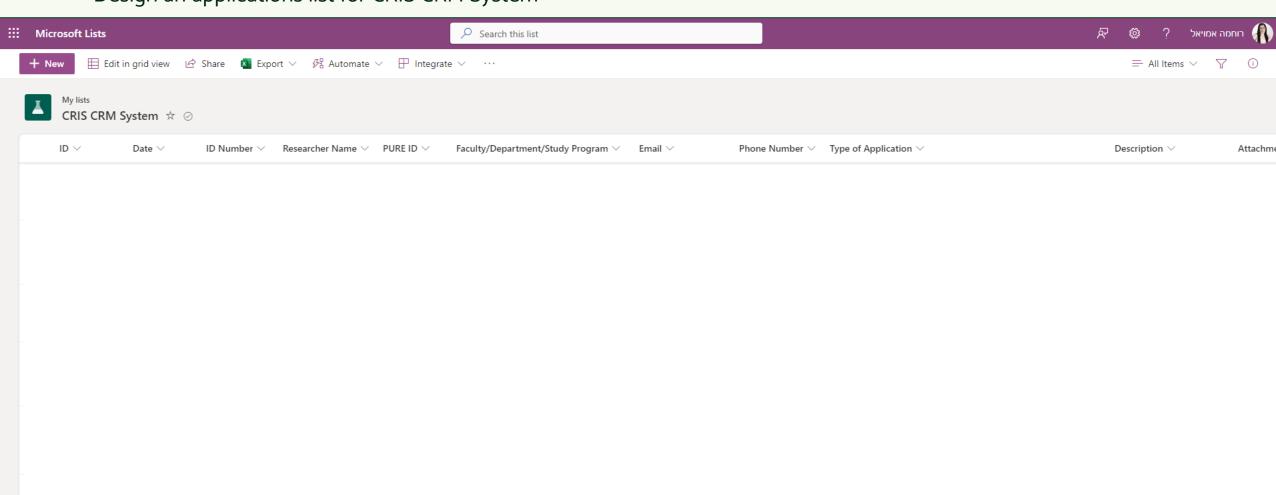
Associate publication in system to personal profile by adding your name to author field (if omitted from publication)	
Human response to perform a certain action in the personal profile	
Incorrect information in personal profile	
Manage Fingerprints in personal profile or publication	
Academic activity update	
Update relations between records in the system, for example between publication and conference, between publication and award	n
Technical problem (it is recommended to upload a screenshot)	
Other	
8. Description of the Application 🖫 Enter your answer	
9. Upload a Screenshot (Non-anonymous question⊕) □□	
↑ Upload file	
File number limit: 1 Single file size limit: 10MB Allowed file types: Word, Excel, PPT, PDF, Image, Video, Audio	
Submit	





Design

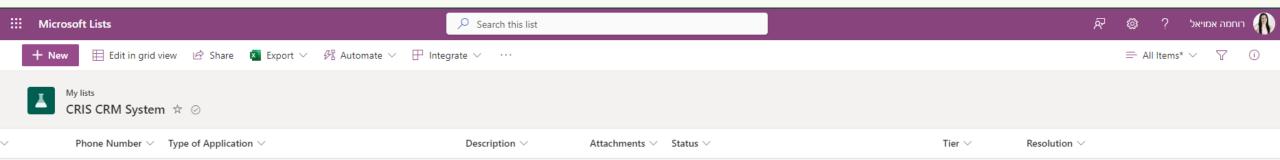
Design an applications list for CRIS CRM System





Design

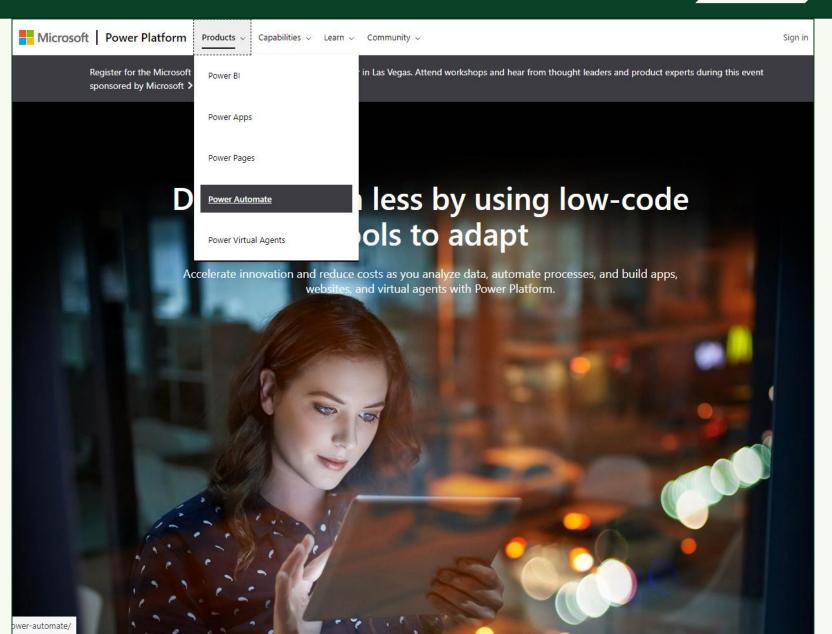
Design an applications list for CRIS CRM System





Develop

Create automatic flows
via Microsoft Power Automate

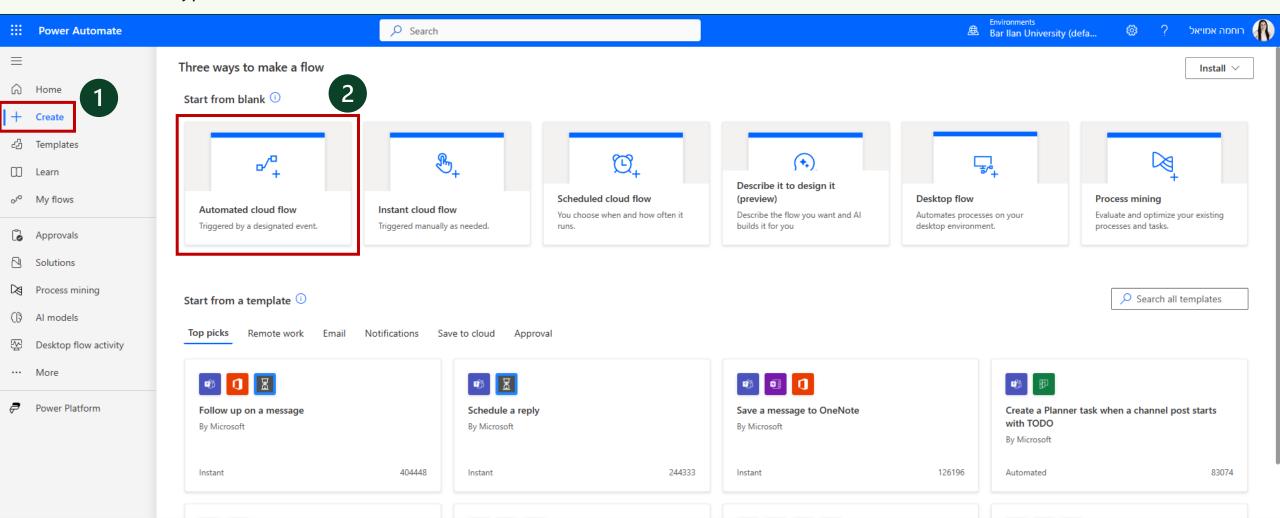


Power Automate. (2023). Microsoft. Retrieved August 6, 2023, from https://powerplatform.microsoft.com/en-us/



Develop

Select a type of flow

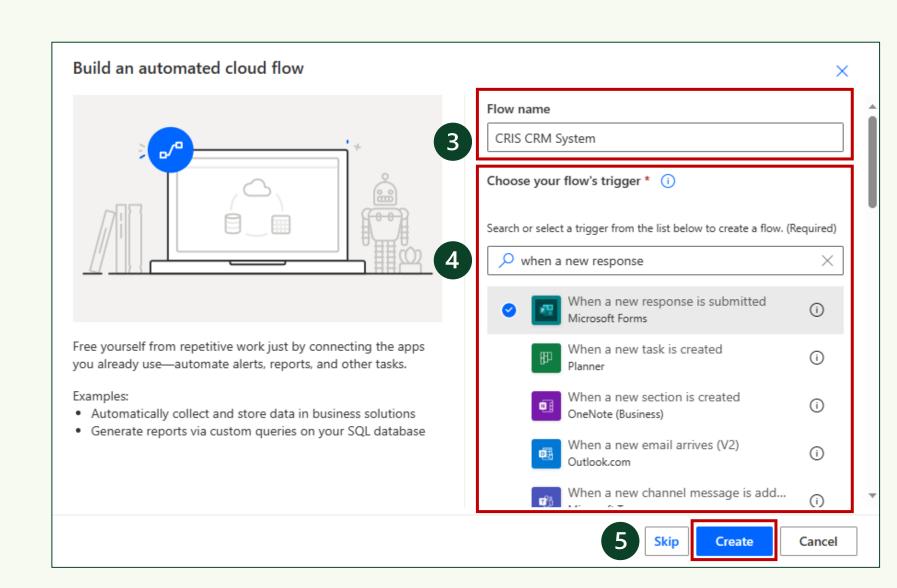




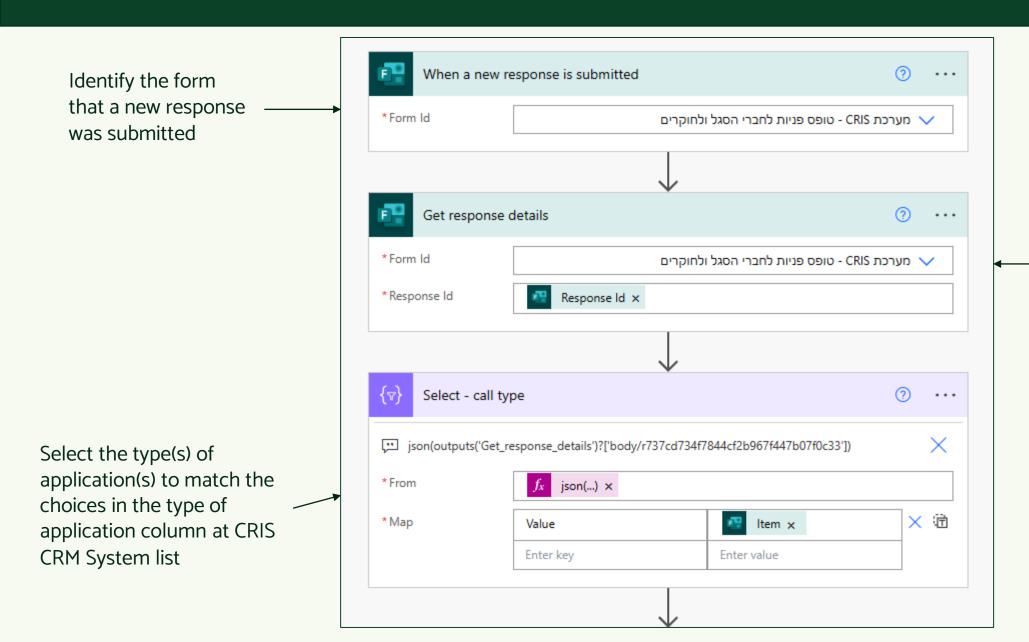
Develop

Build an automated cloud flow

- Add flow name
- Choose the flow's trigger
- Create the flow







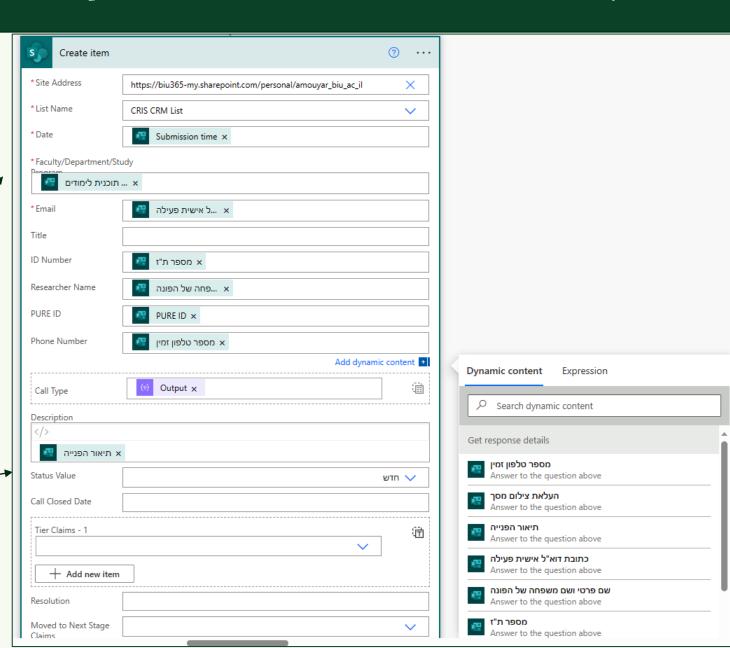
Get the response details according to the response ID



Develop

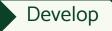
Create a list item at CRIS CRM System with all the populated fields

Each new form submission will get the status value "New"

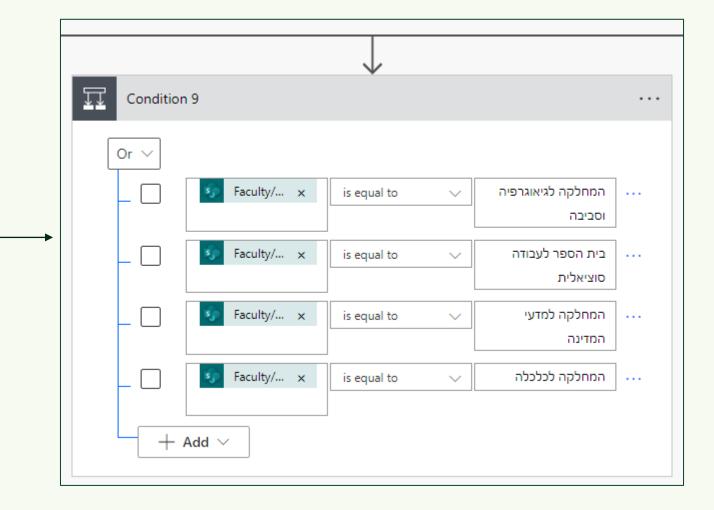


Dynamic content allows to choose dynamic content of fields from the previous step(s)

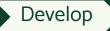


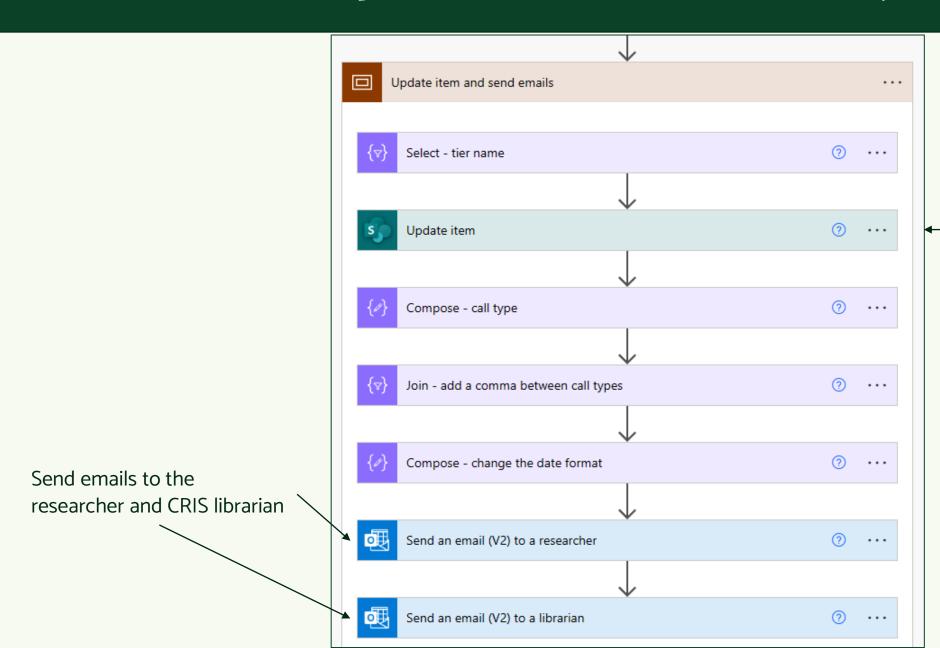


Create 29 parallel conditions for 48 various faculties, departments, and study programs









Tier name is added to CRIS CRM System item list according to the faculty/ department/study program they are responsible to

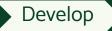


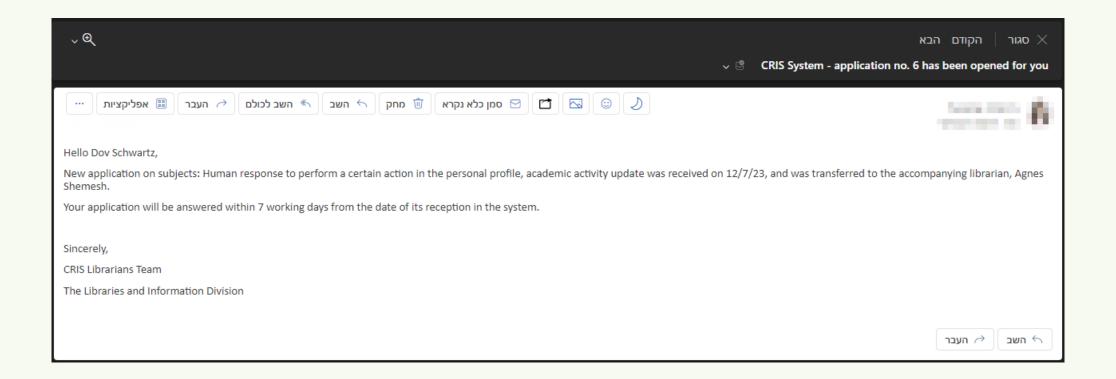
Develop

Send an email to a researcher (option to use HTML i.e., to —— support RTL Hebrew language)

```
<body lang=EN-US link="#0563C1" vlink="#954F72" style='word-wrap:break-word'>
 <div class=WordSection1>
    <span lang=HE style='font-family:"Arial",sans-serif'> שלום
    Researcher Name x ,</span><span dir=LTR
      style='font-family:"Arial",sans-serif'>
       <o:p></o:p>
     </span>
   <span lang=HE style='font-family:"Arial",sans-serif'>
       <o:p>&nbsp;</o:p>
     </span>
    <span lang=HE style='font-family:"Arial",sans-serif' פנייה חדשה</p>
בנושאים:  🙀
               התקבלה Output x
         <o:p></o:p></span>. {x}
                                 , והועברה Email
                                                    xOutputs בתאריך
    <span lang=HE style='font-family:"Arial",sans-serif'>
       <o:p>&nbsp;</o:p>
     </span>
    <span lang=HE style='font-family:"Arial",sans-serif'> פנייתך תיענה
בתוך 7 ימי עבודה
                               <o:p></o:p></span>
    <span lang=HE style='font-family:"Arial",sans-serif'>
       <o:p>&nbsp;</o:p>
     </span>
    <span lang=HE style='font-family:"Arial",sans-serif'>
       <o:p>&nbsp;</o:p>
     </span>
    <span lang=HE style='font-family:"Arial",sans-serif'>,בברכה <o:p>
</o:p></span>
    <span lang=HE style='font-family:"Arial",sans-serif' צוות מידעני<
```



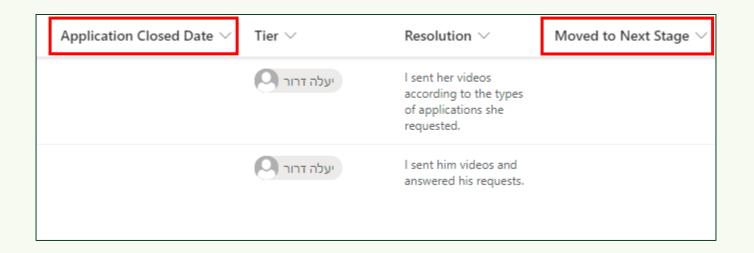






Test

- Present a live demo of the CRIS CRM System to CRIS librarian team for the first time
- Get an initial opinion on the system
- Feedback request to add 2 columns to CRIS CRM System list
 - Add an application closed date when it is completed
 - Transfer the application to the manager's care in case of escalation

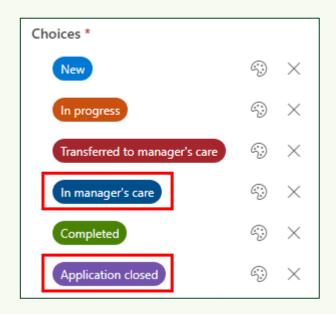


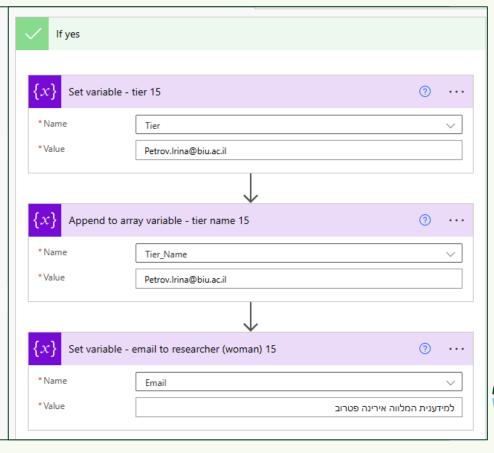


SYSTEM DOWN

Challenges

- Figure out how to update the new fields of the columns in Power Automate flow
- Rebuild "CRIS CRM System" automatic flow from scratch!!! 🙈
- Update the tier name on CRIS CRM System list
- Initialize variables to retrieve the relevant data of tier, tier name, and email to researcher.
- Add 2 additional statuses to make the automatic flows work









Test

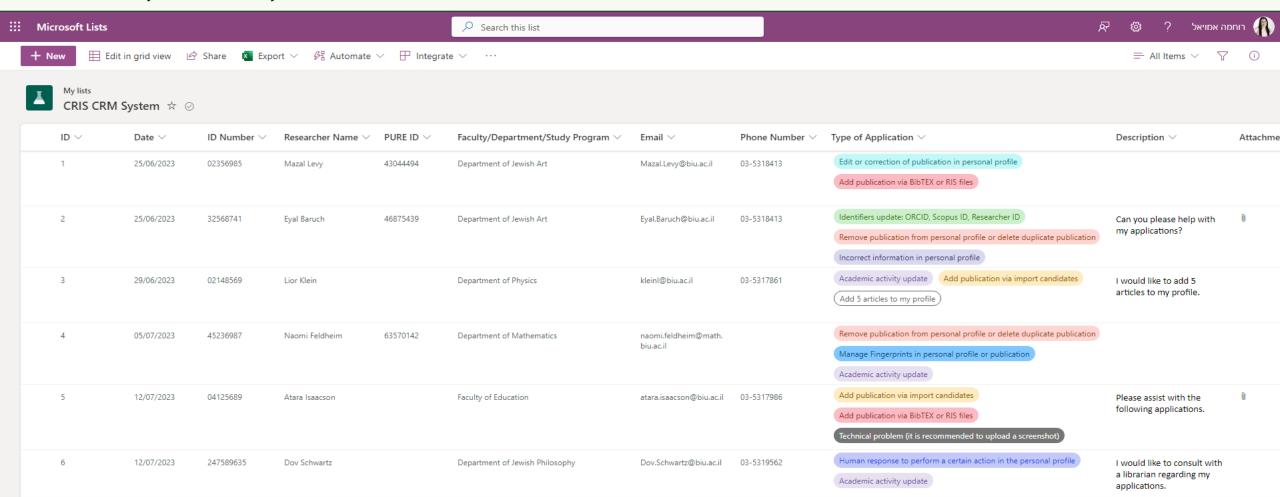
- Test the system with a UX focus group of 6 CRIS librarians
- Tasks:
 - 1. Submit the form as a "researcher"
 - 2. Reply to a researcher via email
 - 3. Update the status and add the resolution
 - 4. Simulate an escalation transfer the application to a manager's care





Deploy

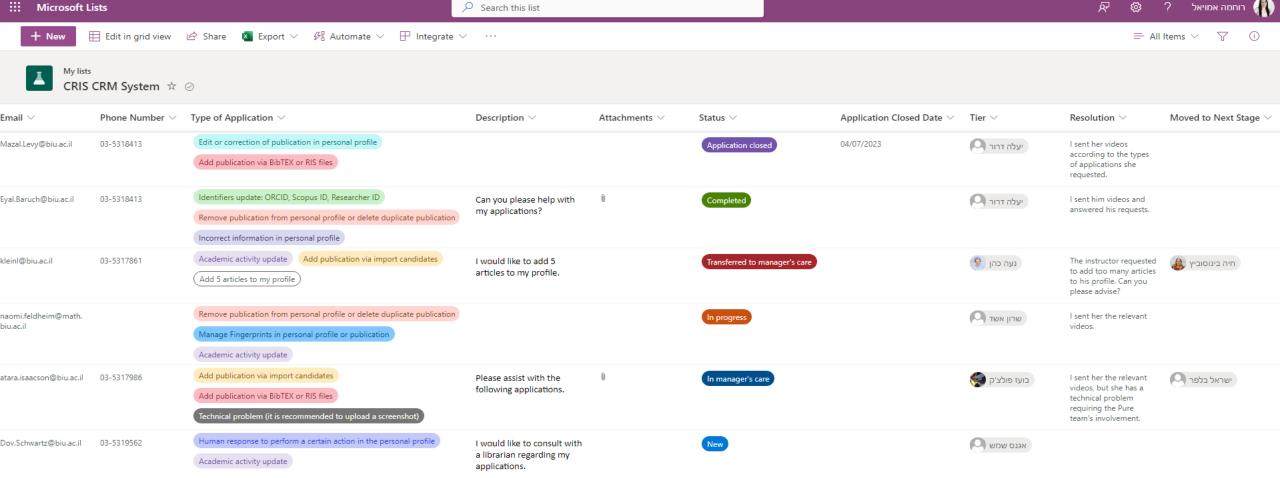
The system is ready for release!





Deploy

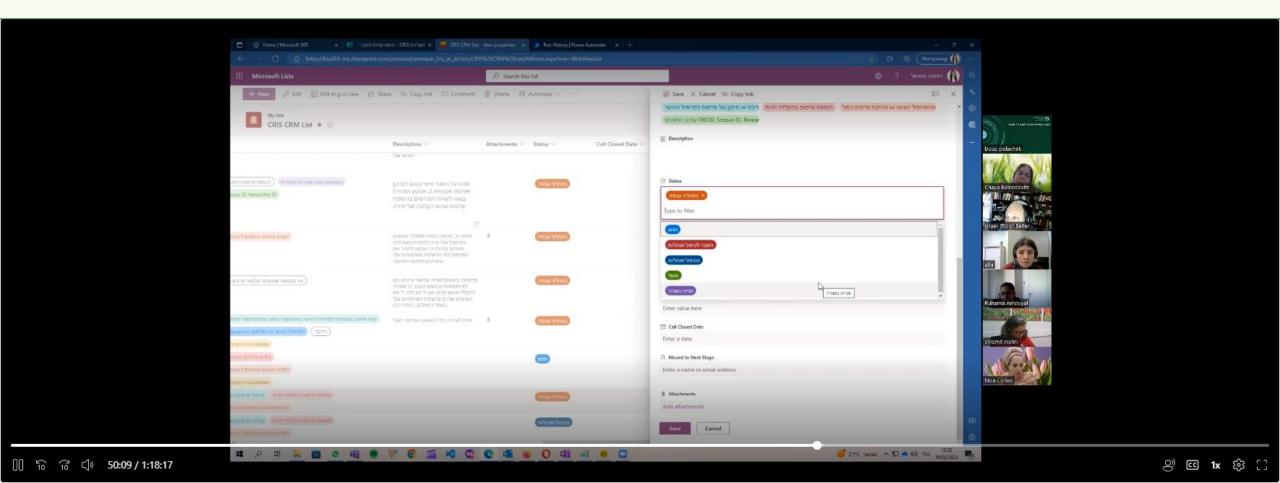
The system is ready for release!

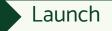




Review

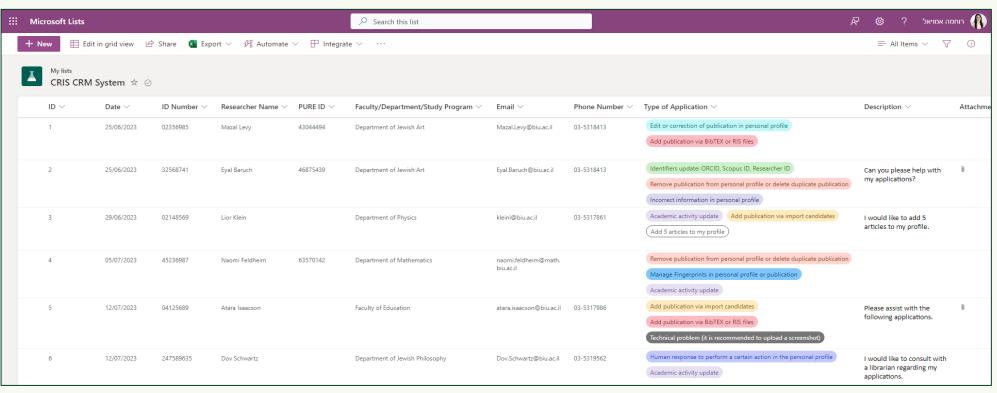
Final evaluation and review of the system





Launch

Official launch of CRIS CRM System 🚱







How to Get Started?

Tutorials by Microsoft

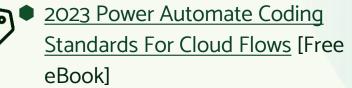
- Get started with Power Automate
- Get started with Power Automate (introduction + exercise)
- Describe building automation with Microsoft Power Automate

Microsoft Communities

- Microsoft Power AutomateCommunity
- Microsoft Power Platform Community

Recommended YouTubers

- Reza Dorrani
- Leila Gharani
- April Dunnam
- Kevin Stratvert
- Matthew Devaney
 - Matthew Devaney's Blog







Many Thanks

Dr. Olga Goldin Efrat Mor

Uri Gafni Karina Masasa

Yael Zuroff Irina Petrov

Dr. Chaya Beinosovitz Sabina Timkowitski

Dr. Israel Belfer Natale Kocher

Yeela Dror Sharon Eshed

Yosefa German Alla Nikonov

Smadar-Dvora Wisper Noa-Lilach Cohen

Agnes Shemesh Shlomit Nishri

Dr. Shirly Lazar Diana Schwartz

Dina Baum Nava Shlosberg

Dafna Fux Boaz Polachek

Yodfat Taase Yulia Almog

The Libraries and Information

Division

Ezequiel Eizner

Reza Dorrani

Microsoft Power Automate

Community



Thank You!

Ruhama Amouyal

Ruhama.Amouyal@biu.ac.il



