

Web Services for "My Account" functions

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Virgo: the UVA Library discovery platform

- "VIRGO" originally was the branded name for Sirsi's "Webcat" OPAC
- The name was retained when we built our own discovery system
 - Approximately 2005
 - Built on Blacklight
 - Many search sources
- Sirsi source came from catalogdump: MARC, callnum, item data
- Nightly update
- Used direct Oracle query for real-time availability (status of items)



Academic SIG

Special Interest Group

A new version of Virgo

- "Version 4" is a total re-write
 - 2019
 - Ruby
 - Locally written API based back-end
 - Many search sources
 - For Symphony catalog, use catalogdump to provide MARC, callnum, item data



Symphony SaaS migration

- In 2018, before Virgo 4 work
- When local hosted, Virgo made direct connection to Symphony Oracle tables for real-time availability
- Not allowed with the Oracle license offered to SaaS customers
- So Symphony Web Services instead!
 - Needed to make the SWS methods work before SaaS migration



About the SWS requests...

- Question:
 - Which SWS style?
- Answer:
 - ROA, not RESTful
- First generation Symphony Web Services were <u>RESTful</u>
- One day support for <u>RESTful</u> style will end
- So we knew we wanted to use the newer style: ROA
 - ROA = resource-oriented architecture



Initial sign-in

UVA users use UVA's SSO "Netbadge".

Others use Library ID and Password stored in Symphony. **₽**U

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		Q Search	Duestions? Ask a Librarian	Library Services -	(2) Sign In	Ļ <mark>1</mark>
		Use	r Sign In			
		UVA Users				
		(UVA students, faculty, and staff)				
		Sign Ir	n with Netbadge			
		All Other Use	ers			
		(All other researchers, including UVA alumni or retirees)				
		Library ID				
		Driver's	License Number, eg:			



Initial sign-in: the SWS request

- We use UVA's single sign-on platform for students, faculty, staff
- For community (non-UVA) patrons, we use SWS

URI =

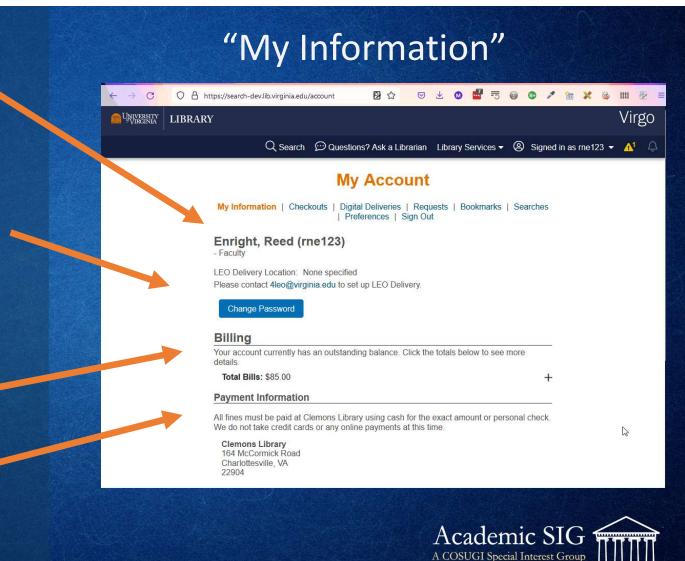
/user/patron/authenticate

```
Request payload =
```

{"alternateID":"RNE123","password":"<* REDACTED *>"}



- Name & address from SWS for community users; from NetBadge for UVA users
- Password change (PIN in Symphony) for community borrowers only
 - UVA users change password in UVA's "Netbadge system"
- Bills on main My Information page.
- Different advice on paying bills for UVA vs. community users



My Information: the SWS request

/user/patron/search? q=ALT_ID:\$uva_computing_service_id &includeFields=barcode, primaryAddress{emailAddress}, displayName, profile{description}, patronStatusInfo{standing,amountOwed}, library



Getting outstanding bills: SWS request

/rest/patron/lookupPatronInfo

?alternateID=\$uva_computing_service_id

&json=true

&includeFeeInfo=UNPAID_FEES

This is actually a RESTful request. Will change to ROA one day ... soonish?



- Sort options
- Overdues and recalled checkouts are highlighted
- Renew one or renew all ("Renew All" button at top of list)
- Failed renewal displays error from SWS response

< → C OA	https://seadev.lib.virginia.edu/checkouts	图 ☆	♡ ± 00	* 🖮 🗶 🗞 🗰 👰
MUNIVERSITY LIBRARY	Q se	arch 🛛 💬 Questions? Ask a Libra	rian Library Services 🕶 🙁 Signe	Virgo ed in as me123 ▾ 🗛 🍦
	My My Councilion Checkouts Digital Deliveries	Account s Requests Bookmarks Se Sign Out	arches Preferences —	
	Sort by Overdue / Recalled Author (Ascending) Author (Descending) Title (Ascending) Title (Descending) Due Date (Ascending) Due Date (Descending) Overdue / Recalled		Renew All	
	1 One month after November Author: Cember, Dee Call n. 1ber: ZZ311.M36 2020 Due :: 2021-08-19 Recalled 2021-07-15			

Checkouts

A COSUGI Special Interest Group

Getting checkouts: the SWS request /user/patron/search? q=ALT_ID: \$uva_computing_service_id &json=true &includeFields=circRecordList{dueDate, overdue, estimatedOverdueAmount, recalledDate, renewalDate, library {description}, item{barcode,call{dispCallNumber}, bib{key,author,title}}}



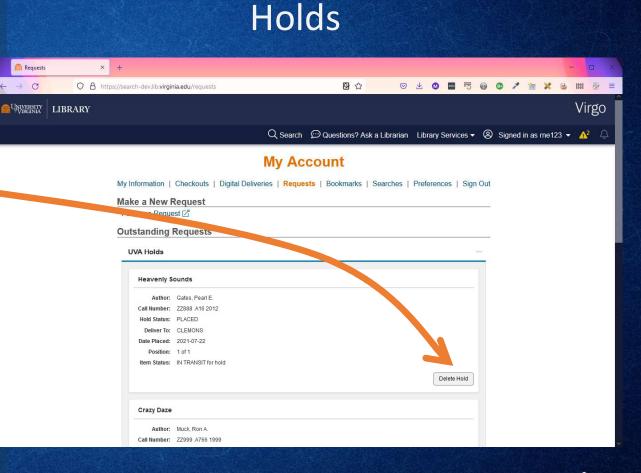
Renewals

For each renewal: /circulation/circRecord/renew

With this message body:
{ "itemBarcode": "\$item_barcode" }



- "Requests" tab shows Symphony holds
- List and delete holds
- Below UVA Holds are "ILL requests"
 - Virgo also uses ILLiad API!
 - Virgo also uses Aeon API (Special Collections requests)





Holds: the SWS request

/user/patron/search? q=ALT_ID:\$uva_computing_service_id &json=true &includeFields=holdRecordList {*,bib{title,author}, item{barcode,currentLocation,library, transit{transitReason}, call{dispCallNumber}}}



Delete hold

• A simple ROA request:

/circulation/holdRecord/key/#{hold_key}



In theory, getting patron info could all be done in one SWS request:

- Get all components in one SWS request:
 - User information (name, address, user library, user profile)
 - List of checkouts, list of outstanding bills, list of active holds
- I think it would be more efficient
- Currently discussing with the UVA Library "Virgo Team"



/user/p	atron/search?							
q=ALT_ID:\$uva_computing_service_id								
&json=true								
&includeFields=								
	<pre>barcode,primaryAddress{emailAddress},</pre>							
Initial user info	displayName,profile{description},							
	patronStatusInfo{standing,amountOwed},library,							
	circRecordList{dueDate,							
Checkouts	overdue,estimatedOverdueAmount,recalledDate,							
CHECKOULS	renewalDate,library{description},							
	<pre>item{barcode,call{dispCallNumber},</pre>							
	<pre>bib{key,author,title}}},</pre>							
	holdRecordList							
	{pickupLibrary,placedDate,status,							
	bib{title,author},							
Holds	item{barcode,currentLocation,library,transit							
	{transitReason,transitDate,destinationLibra	ry,						
	holdRecord},							
	call{dispCallNumber}},							
Outstanding bills	blocklist{createDate,amount,owed,	Academic SIG						
Outstanding bills	block,library,billDate,	A COSUGI Special Interest Group						
	callNumber,title}							

In conclusion

- Learning to use SWS has been challenging (for me) but rewarding
- I am slowly gaining facility with SWS

