



Lightweight applications by librarians for librarians

Asbjørn Risan, Unit, BIBSYS
Developers Day, IGELU 2018, 23rd of August 2018

Agenda

- About me and Unit
- Why librarians should code
- Things to be aware of!
- The BIBSYS environment
- Live! examples

Goal of the day: Inspire to explore the possibilities



Disclaimer

- I will show (almost) no code in this presentation, but I'm more than happy to share and/or discuss code afterwards
- Contact information are included in this presentation



About me

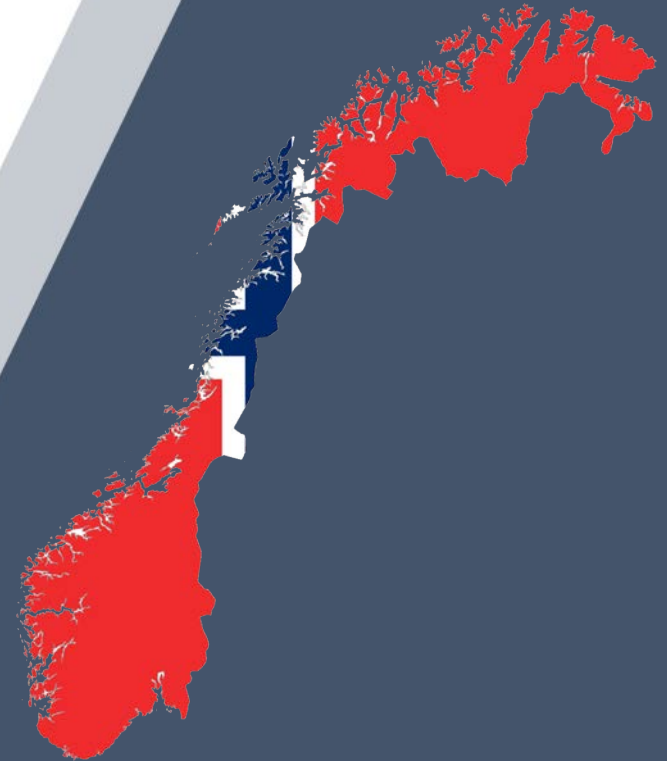
- Librarian with a masters degree from OsloMet
- Oslo Metropolitan University
- Started in BIBSYS* in 2008
- Product owner of Primo, Leganto and BIBSYS
Authority files
- No formal degree in programming, except
what was part of the library education
- Like to code on the side

*Now Unit



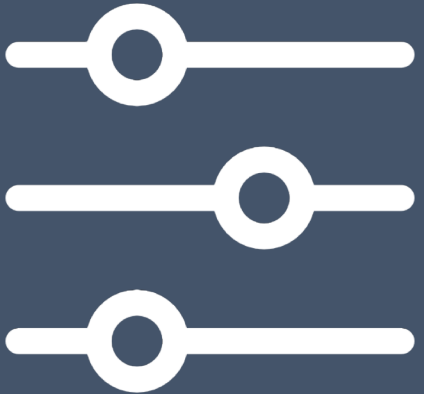
About Unit

- Unit – The Norwegian Directorate for ICT and Joint Services in Higher Education and Research
- Merger between three governmental institutions (BIBSYS, CERES and parts of UNINETT) as of January 1st 2018
- Established as a directorate owned by the Ministry of Education and Research
- Unit offers a wide range of services within the areas of education and research management for the higher education sector and academic/research libraries



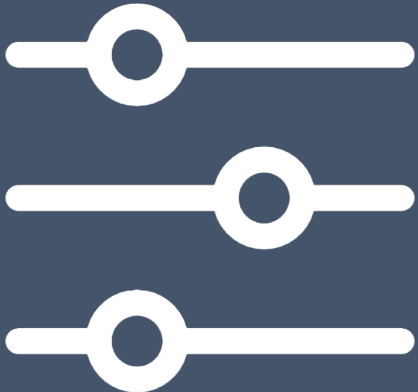
Why should librarians code? (or why do I code!)

- Educational – learn something new
- Challenging – develop skills in problem solving
- Be creative – find solutions
- Save time – automate instead of repeating tasks
- Efficient – I know my needs
- Knowing the basics makes it easier to talk to developers and understand challenges and possibilities
- Instant reward and feedback on screen
- It's fun



To be aware of!

- Security – are the service secure, can it be misused, do it affect data?
 - Peer-review of the code
- Privacy – are there any personal data involved, can anyone access/change personal data?
 - Peer-review of the code
- Maintenance – who will do the maintenance? If you develop something you are probably stuck with it!
 - Stuff do break!
- Bugs – have you covered all of the corner-cases?
 - Testing, testing, testing (preferably by someone that's not you)
- Changes – as soon as you launch something you will get suggestions for changes!



The BIBSYS consortia

- ≈ 80 institutions
- Products:
 - Alma
 - Oria (Primo)*
 - Leganto (reading list consortia)
- ≈ 12 persons handling configuration, set up, administration and support for Ex Libris products to the consortia
- A need for efficiency and structure

*Oria is the Norwegian flavour of Primo

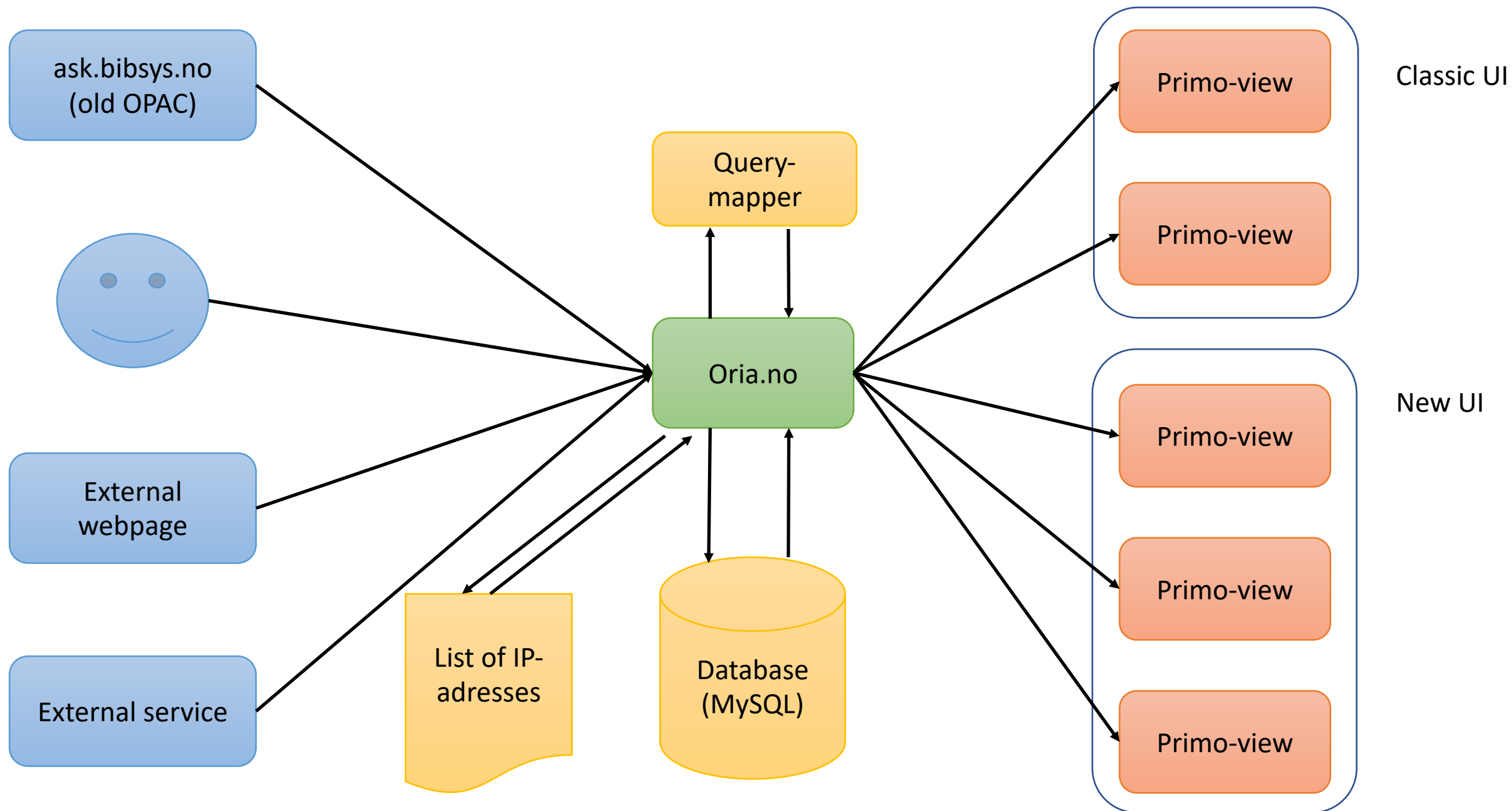


The BIBSYS environment – key elements

- Database (MySQL) with basic information about each institution
 - Display name
 - Primo code
 - Alma code
 - Base-urls
 - Live with new UI-indicator
 - ...
- Re-direct-functionality behind oria.no*
 - Redirects users based on IP
 - Redirects based on parameters (view-code)
 - Re-directs from old OPAC to Primo
 - Basic query-mapping

*Oria is the Norwegian flavour of Primo





Examples

Demonstrate some examples of services created

- Search box generator
- New items report
- Permalinks for courses and reading lists
- uResolver feedback



Example 1: Search box generator

Usecase: 80 institutions needs code for a search box for Primo that they can include on their own website

How to ensure that they get the correct code without the need to contact BIBSYS Support?

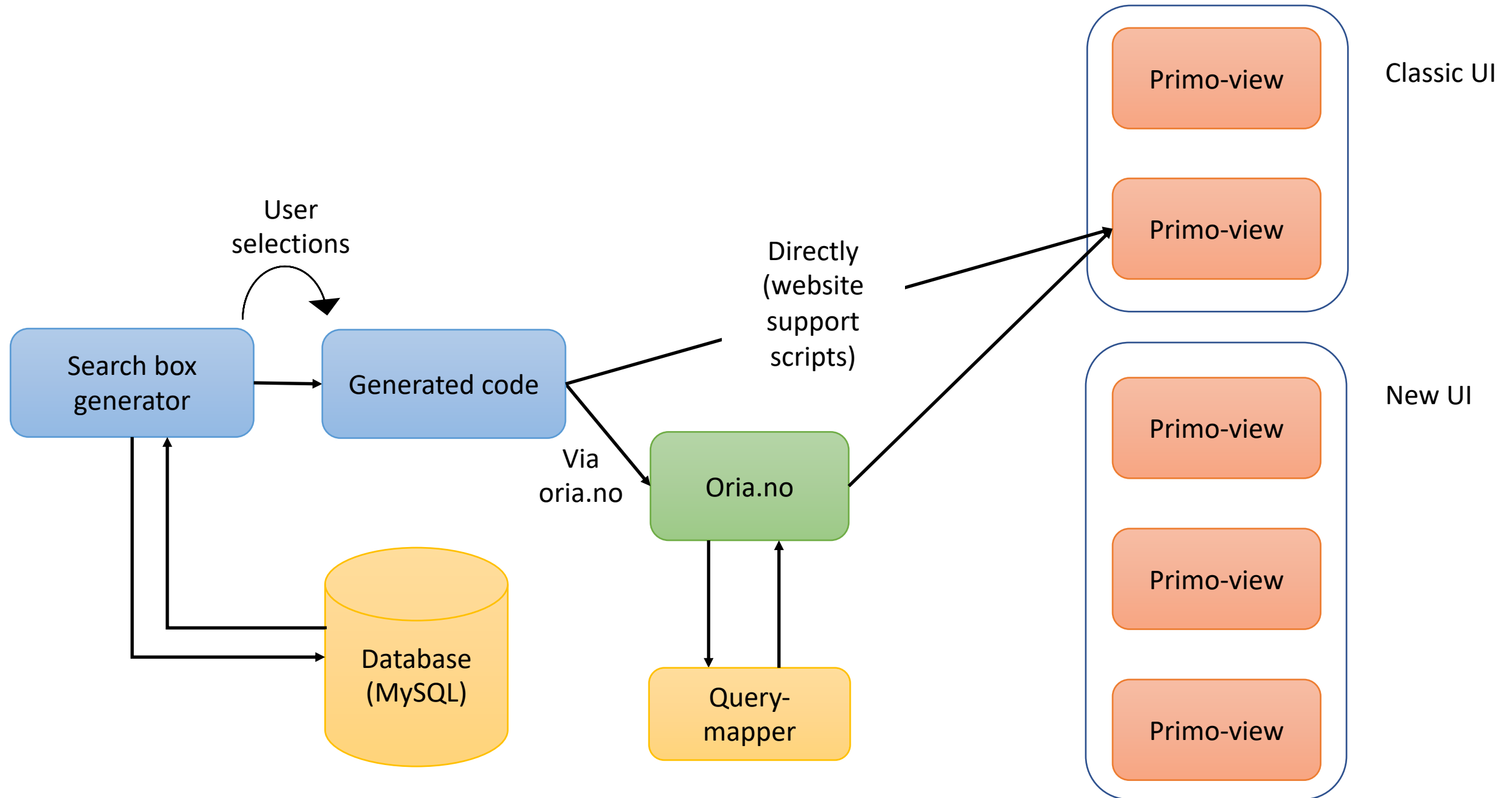


Example 1: Search box generator

Solution: We buildt a search box generator that generates the code needed based on a few selections by the user

Uses the database to display list of institutions and to fetch view code etc



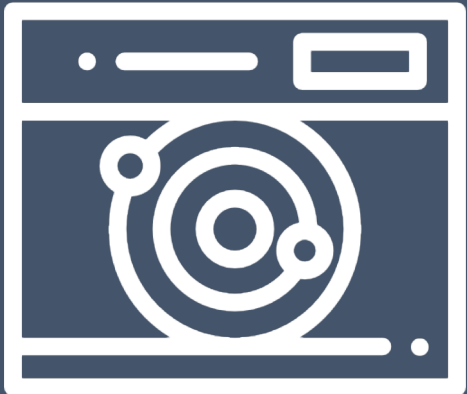


Example 1: Search box generator

Solution: We buildt a search box generator that generates the code needed based on a few selections by the user

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https://www.oria.no/sokeboks/sokeboks_nui/sokeboks.php



Example 2: New items list

Usecase: The institutions wants a sorted list of new documents for a given period with a link to the OPAC

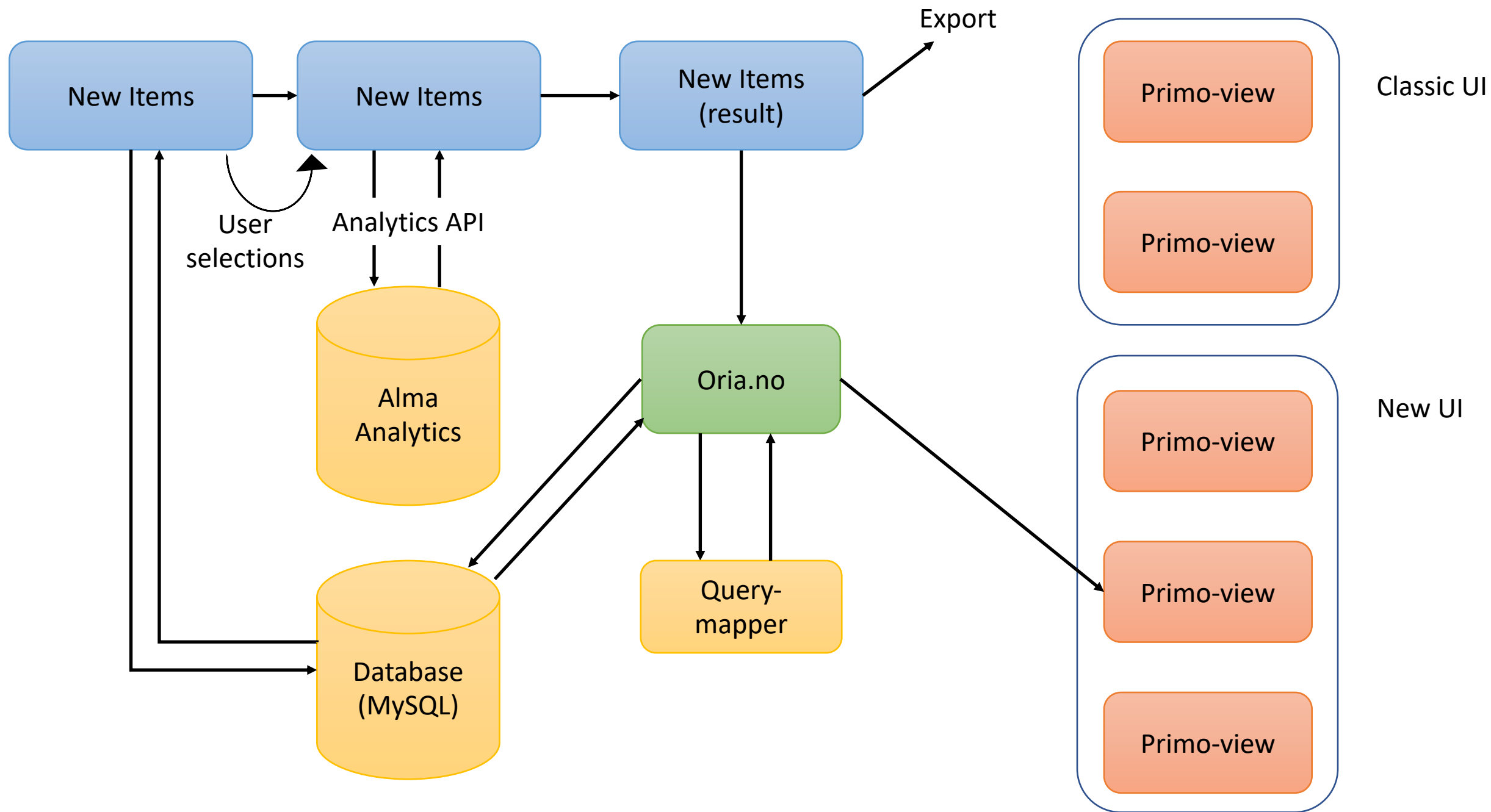


Example 2: New items list

Solution: A service that uses the analytics report-api filtered by user input for institution and time period

Format to HTML and include link to Oria with the possibility to download the file





Example 2: New items list

Solution: A service that uses analytics report filtered by user input for institution and time period

Format to HTML and include link to Oria with the possibility to download the file

<https://www.oria.no/nyhetslister/index.php>



Example 2: New items list

Experiences:

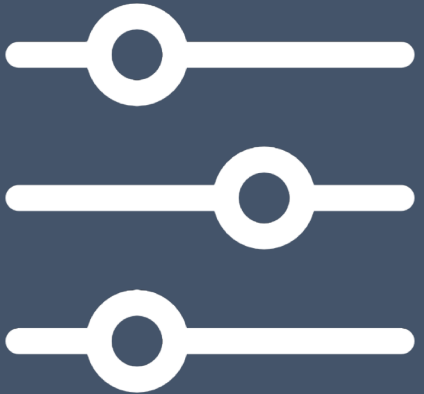
- May be slow especially for longer time spans – need to add a lot of retries due to time out
 - Should use API-key for each institution instead of Network-API
- Response in the API not to be trusted – stated finished without delivery of data



Example 3: Permalinks for courses and reading lists

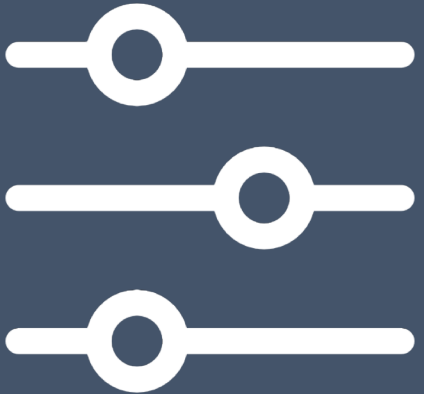
Usecase: There was a need to get permalinks for all (or selected) courses and permalinks to a specific reading-list. Analytics did not provide the necessary ID's

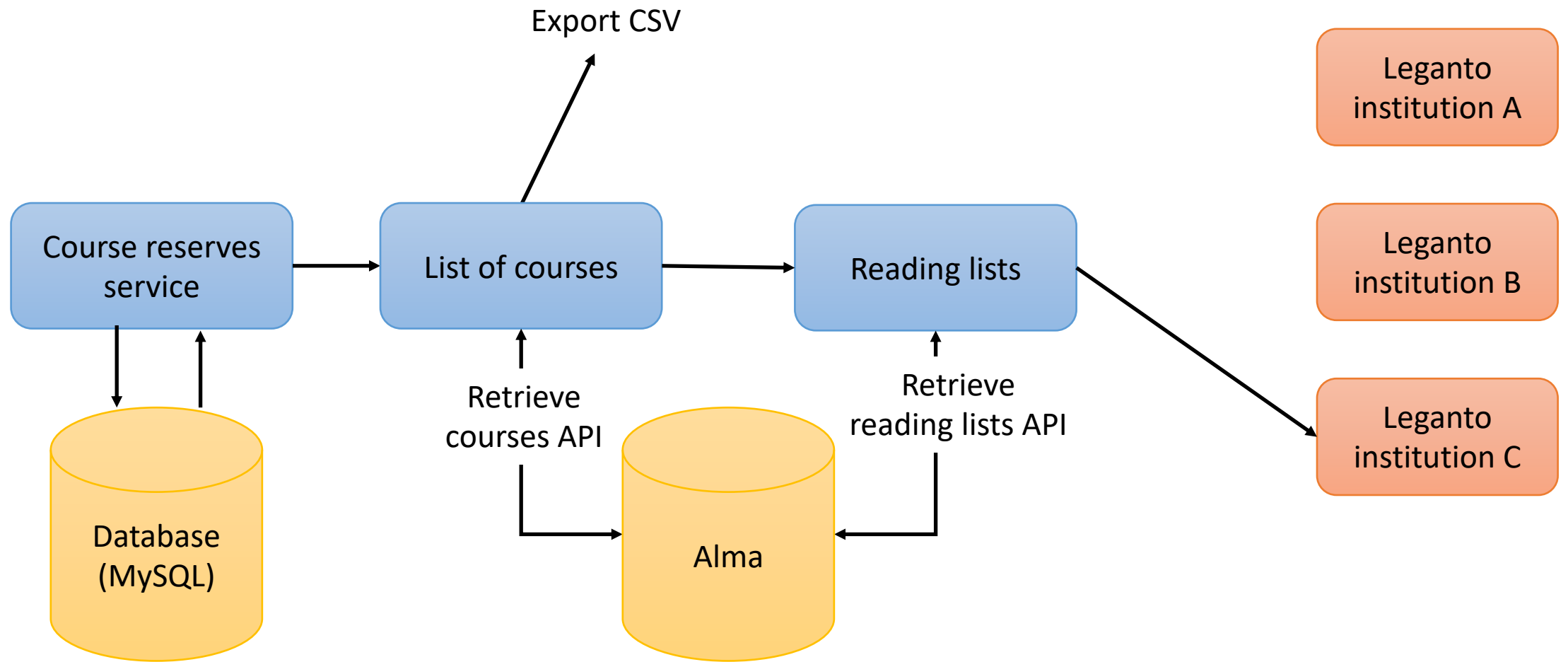
Bonus: Showcase the possibilities with the Leganto-API's for the reading list consortia



Example 3: Permalinks for courses and reading lists

Solution: Build a service that use the Leganto-API's to provide a list of all courses with the possibility to export to CSV or drill down to reading list level

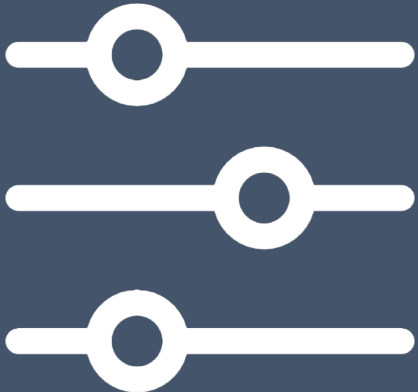




Example 3: Permalinks for courses and reading lists

Solution: Build a service that use the Leganto-API's to provide a list of all courses with the possibility to export to CSV or drill down to reading list level

<https://pensum.bibsys.no/lister/index.php>



Example 4: uResolver feedback

Usecase: There is a need for a feedback form in the link-resolver for the end user to report broken links or other feedback to the library



Example 4: uResolver feedback

Solution: Add a general electronic service in the uResolver that links to a webform that enable the end user to send a feedback to the library including all necessary metadata



Feedback

Service Code	feedback
Service Description	Tilbakemeldingsskjema i lenketjeneren

Service Details

Service Availability Rules

Active **Active**

Service Code * **feedback**

Service Name * **Feedback**

Service Description **Tilbakemeldingsskjema i lenketjeneren**

Public Name **Tilbakemelding/Feedback**

Public Note

Display Location * **Getit & viewit**

URL Template * **http://www.oria.no/feedback?atitle={rft.atitle}&au={rft.au}&aufirst={rft.aufirst}&aulast={rft.aulast}&btitle={rft.btitle}&date={rft.date}&dcidentifier={rft.dcIdentifier}&doi={**

Enable without login ☒ Yes ☐ No

Disable service ☒ Never

☐ When resource is owned by the campus

☐ When resource is owned by the campus and available

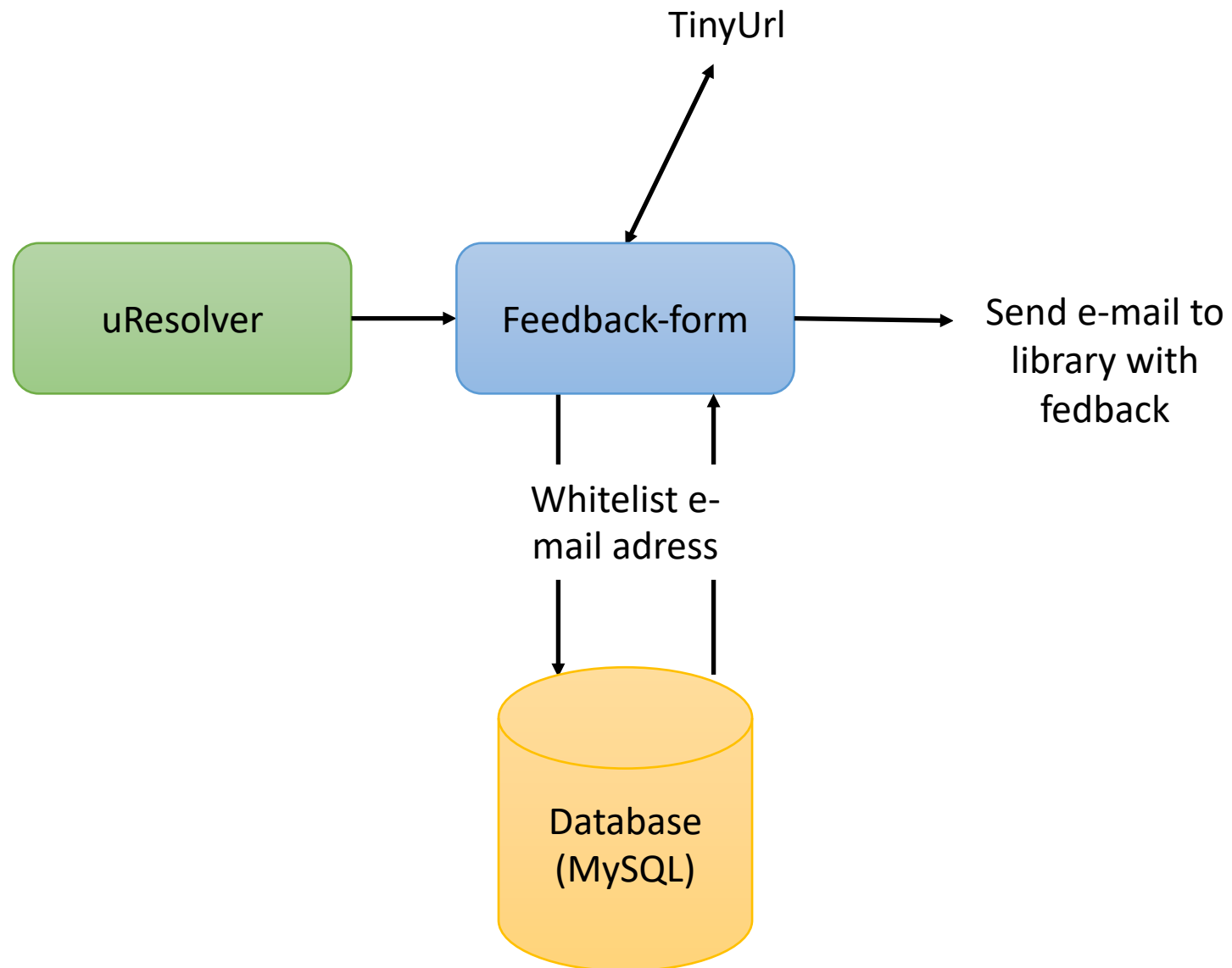
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Example 4: uResolver feedback

http://www.oria.no/feedback?atitle={rft.atitle}&au={rft.au}&aufirst={rft.aufirst}&aulast={rft.aulast}&bttitle={rft.bttitle}&date={rft.date}&dcidentifier={rft.dcIdentifier}&doi={rft.doi}&issn={rft.issn}&eissn={rft.eissn}&isbn={rft.isbn}&eisbn={rft.eisbn}&epage={rft.epage}&spage={rft.spage}&pages={rft.pages}&genre={rft.genre}&issue={rft.issue}&jtitle={rft.jtitle}&pub={rft.publisher}&publisher={rft.publisher}&title={rft.title}&volume={rft.volume}&source={rfr_id}&nz_id={rft_dat}&epost=library@institution.no&oria_inst=diakon





Example 4: uResolver feedback

Solution: Add a general electronic service in the uResolver that links to a webform that enable the end user to send a feedback to the library including all necessary metadata

<http://uib.oria.no>

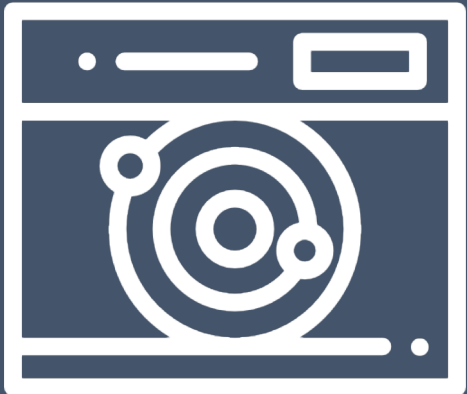


Thanks!

Questions?

Contact information:

- E-mail: asbjorn.risan@unit.no
- Phone: (+47) 95 88 41 31



Links

Search box:

https://www.oria.no/sokeboks/sokeboks_nui/sokeboks.php

New items report:

<https://www.oria.no/nyhetslister/index.php>

Courses/lists:

<https://pensum.bibsys.no/lister/index.php>

Feedback: <http://uib.oria.no>

