

Learning analytics to support students at risk

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Active Students Risk Assessment

Academic Background

Effort

Performance



student-at-risk



student not-at-risk

Active Students Risk Assessment Learning Analytics Dashboard



The "Risk Assessment" dashboard aims to support program developers to plan resources distribution and to help them identify students who are potentially at risk so that they can plan further investigation and action. To achieve this, the "Risk Assessment" dashboard uses information regarding students' academic performance as recorded by the Study Information System of the University of Tartu and after acquiring students' informed consent.

The assessments provided by the dashboard should be used as insights for further investigation and not as evidence of academic performance.

[Year 1](#) | [Year 2](#) | [Year 3](#) | [Year 4](#) | [Year 5 and More](#)

Personal ID	Student Place ID	Risk Assessment	Risk Assessment Reasoning	
0	68007	386242	●	<ul style="list-style-type: none"> no experience studying abroad big experience as a UT student
1	135475	386248	●	<ul style="list-style-type: none"> no experience studying abroad little financial support
2	156127	386249	●	<ul style="list-style-type: none"> few extracurricular credits earned many days on academic leave no experience studying abroad little financial support
3	174565	386255	●	<ul style="list-style-type: none"> few extracurricular credits earned no experience studying abroad little financial support
4	174772	386257	●	<ul style="list-style-type: none"> many days on academic leave no experience studying abroad few courses with attempted exams
5	191951	386265	●	<ul style="list-style-type: none"> few extracurricular credits earned many days on academic leave no experience studying abroad few registered courses
6	191952	386266	●	
7	200570	386272	●	
8	217350	386284	●	<ul style="list-style-type: none"> many days on academic leave no experience studying abroad
9	221741	386291	●	
10	221742	386292	●	<ul style="list-style-type: none"> many days on academic leave no experience studying abroad
11	236344	386304	●	<ul style="list-style-type: none"> many days on academic leave no experience studying abroad
12	239999	386330	●	
13	240009	386340	●	<ul style="list-style-type: none"> no experience studying abroad
14	240019	386350	●	<ul style="list-style-type: none"> many days on academic leave no experience studying abroad little financial support
15	240020	386351	●	<ul style="list-style-type: none"> many days on academic leave no experience studying abroad
16	240024	386355	●	<ul style="list-style-type: none"> many days on academic leave no experience studying abroad
17	240028	386359	●	
18	240049	387034	●	<ul style="list-style-type: none"> no experience studying abroad

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Predicting Dropouts @ UT

- **Performance** (in terms of grades): registered credits, cancelled credits, earned credits, grades, passed courses.
- **Effort** (in terms of participation): tuition/stipends, extended studies, extra credits, academic leave, holidays/vacation, study abroad, workload, employment contract with the University.
- **Prior academic history**: prior education level normalized admission score, admissions special conditions, prior studies affiliated to UT.

Faculty of Science and Technology
 Computer Science (bachelor curriculum)

| [Year 2](#) | [Year 3](#) | [Year 4](#) | [Year 5 and More](#)

ID	Risk Assessment	Risk Assessment Reasoning
		<ul style="list-style-type: none"> • no experience studying abroad • big experience as a UT student
		<ul style="list-style-type: none"> • no experience studying abroad • little financial support
		<ul style="list-style-type: none"> • few extracurricular credits earned • many days on academic leave • no experience studying abroad • little financial support
		<ul style="list-style-type: none"> • few extracurricular credits earned • no experience studying abroad • little financial support
		<ul style="list-style-type: none"> • many days on academic leave • no experience studying abroad
		<ul style="list-style-type: none"> • few courses with attempted exams • few extracurricular credits earned • many days on academic leave • no experience studying abroad • few registered courses
		

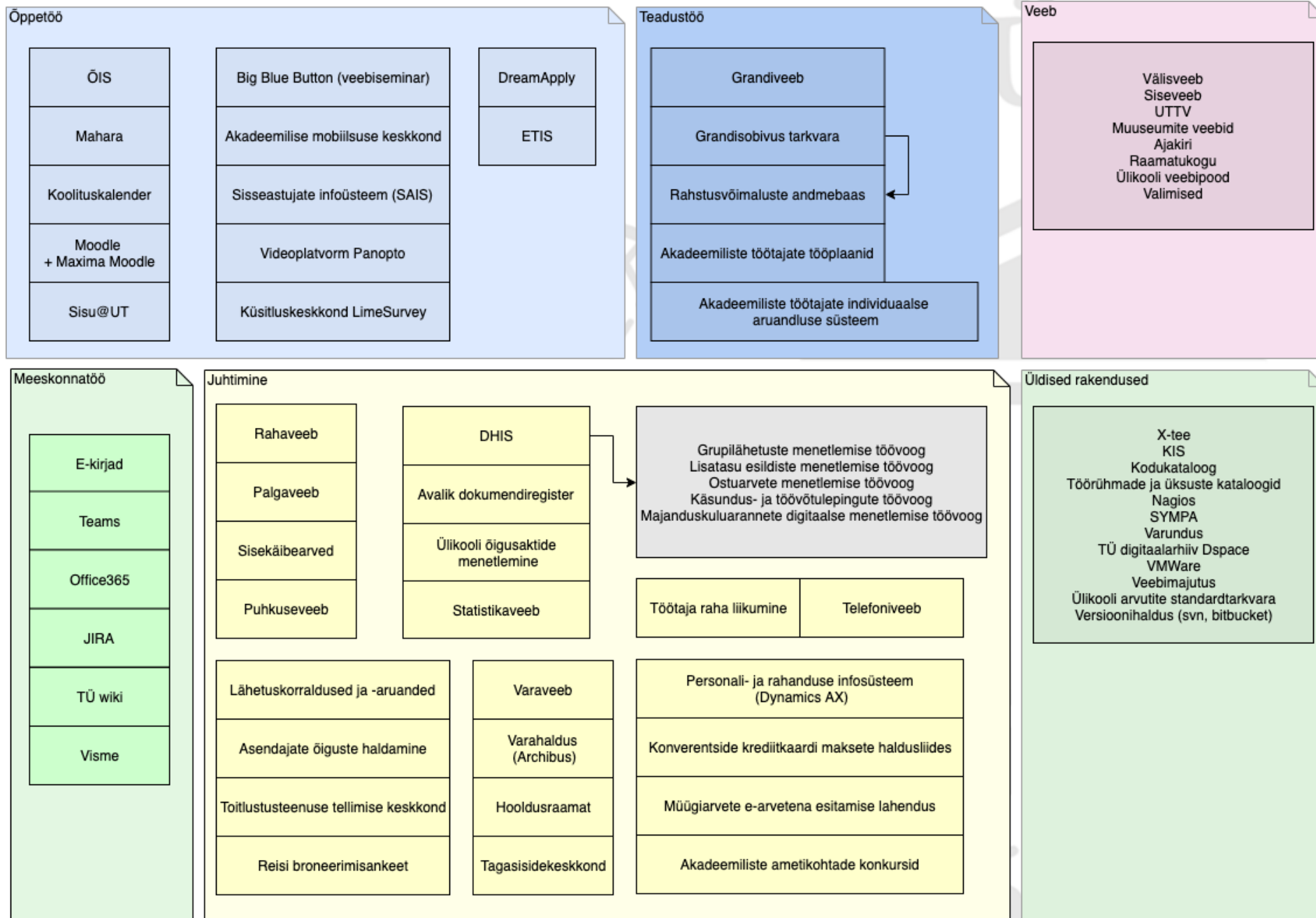
TÜ ÕIS2 ülemineku võlu ja valu

Erkki Leego

29.10.2019



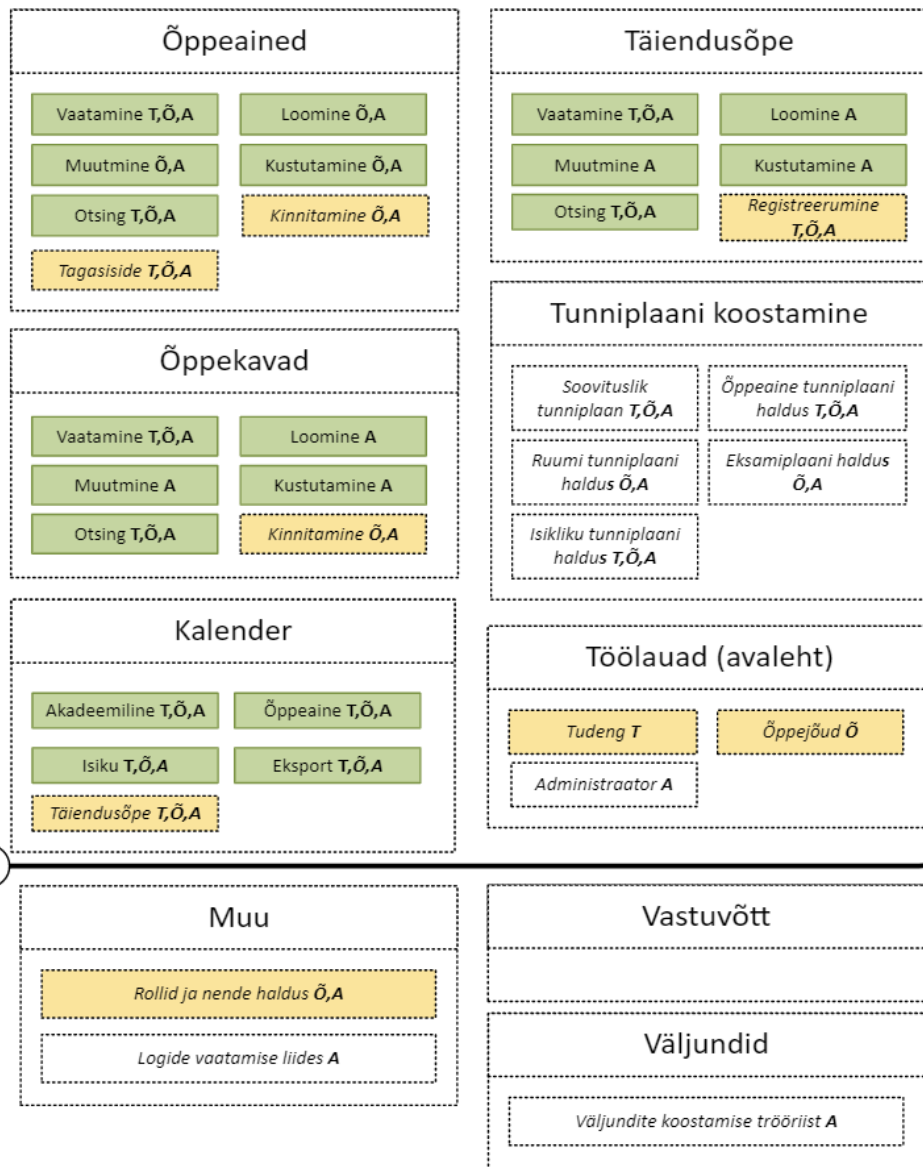
TÜ infosüsteem 2019



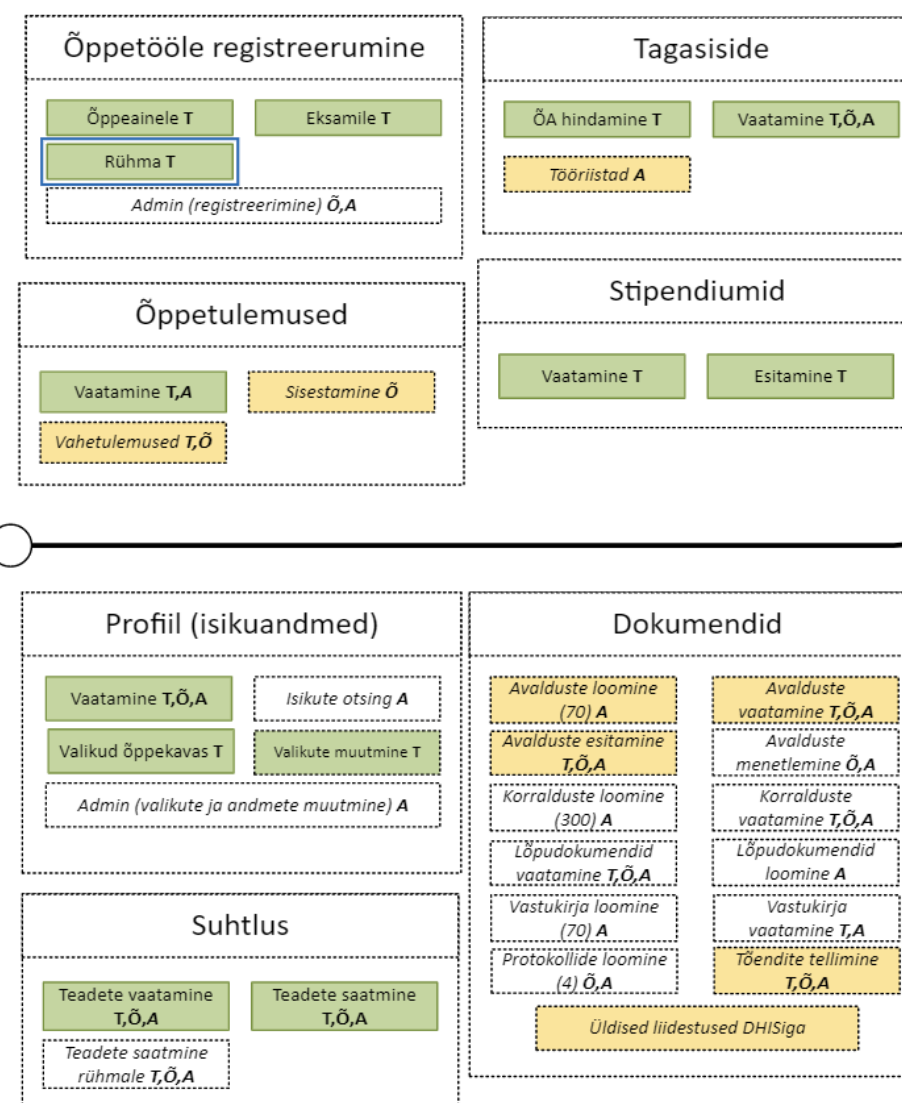
ÕIS2 moodulite arenduse seis 2019. oktoobris

Legend
T - Tudeng, **Õ** - Õppejõud, **A** - Administraator (lihtsustatult kõik teised rollid: ÕKS, Programmijuht, Koordinaator ja Peakasutaja(d))
 Valmis / avalik Arenduses / ootab kinnitamist

Õppetöö planeerimine



Õppetöö jooksev korraldamine



Peamised eesmärgid: mis on/saab olema uutmoodi?

- Teenusepõhine disain ja arhitektuur.
- Rakendustarkvara liides (API) <https://ois2.ut.ee/doc/>
- Kasutajakogemuse (UX) ja kasutajaliidese (UI) disain.
 - mobiiliseadmete tugi;
 - esialgu Google Material Design, kuid disain uuendamisel;
 - rollipõhised töölaudad.
- Uued teenused, nt
 - õppeaine ja õppekava menetlemine;
 - tunniplaan;
 - integreeritud kalender;
 - õpianalüütika;
 - paberivaba ülikool: digitaalsed avaldused, esildised, korraldused, arved.

Digiarengu vaade ÕIS2 arendusele

- Õppeinfo kvaliteetne haldamine ja kasutamine on ülikooli jaoks väga tähtis
 - Ülikoolis on 64+ infosüsteemi rakendust
 - ÕIS2 arendus on olnud ja saab olema prioriteet
- Digiarhitektuuris liigume suurte monoliitsete süsteemide asemel teenuspõhise arhitektuuri suunas
 - Moodulid on teenuste ja funktsioonide põhised
 - Tähtis on andmete ladusa vahetamise võimekus
 - Andmete hoidmine, haldamine ja esitlemine eraldi käsitletavad
- Andmed, mitte dokumendid!

Õppekava töölaud

Koostaja: Helina Riisalu

