Digital Attendance System

Attendance by QR code, absences counted for you

Students scan a QR code. Signatures are verified by location and device, absences follow your attendance rule, and one Excel export closes the term.

SIGNATURE
QR Code · Unique Code · Manual

VERIFICATION
Location · Device · Risk

RESULT
Attendance rule · Report · OBS



Emre Şahin
Student

Signed with QR code



Assoc. Prof. Elif Demir
Instructor

Session open · 41 signatures



Selin Aydın
Student Affairs

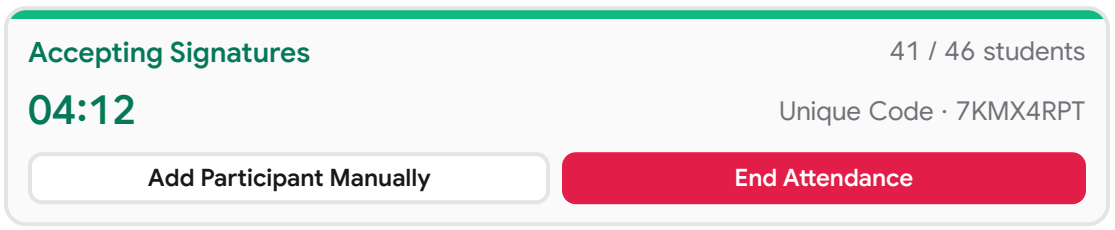
OBS export

MODULE MAP

Eight modules, one system

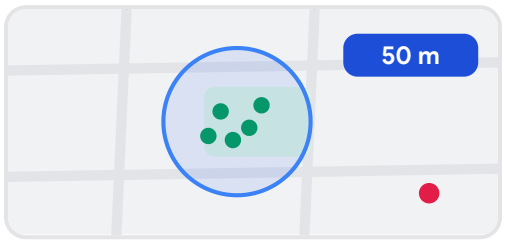
Attendance Session

Dynamic QR code, Unique Code and manual entry. Single lecture, block lecture or multiple lectures.



Location

Signatures are flagged by distance from the classroom.



Device

One student, one device.

UNIQUE	SHARED
38	2

Attendance Rule

Absence is counted in hours and converted into weeks. Thresholds are set by the administrator.

ABSENT	ALLOWANCE	STATUS
2.5 wk	5 wk	Meets rule

Attendance Preview

Students see their own risk.

Absent weeks 2.5 / 5

Reports

Excel and PDF output.

Attendance Report · Student Records · Overall Summary

OBS Export

One Excel at the end of term.

- Exempt lectures excluded
- 04:00 nightly sync

Events and Venues

Seminars, symposiums, congresses. A venue session can stay open for up to 12 hours.

Venue QR	Infinite QR	Non lecture
Hall B · 312 signatures	Career Fair	Seminar · 84 signatures

Internship

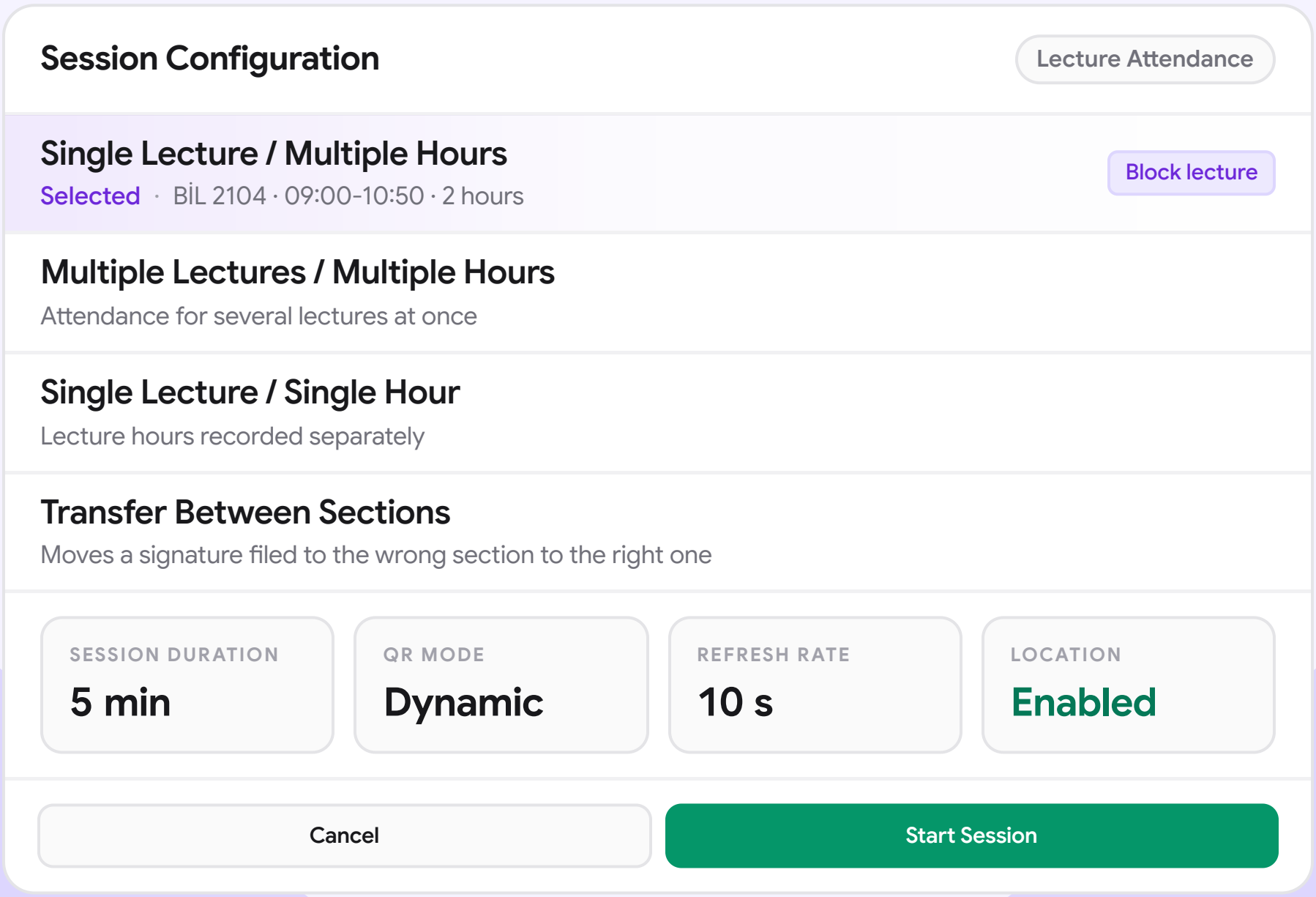
Internship attendance and advisor tracking.

Internship Students	92% attendance

SESSION CONFIGURATION

Block lectures and seminars, from one screen

The instructor clicks the **Take Attendance** button in the side menu. Lecture attendance and non lecture events sit in separate tabs; a block lecture covers several hours in a single session.

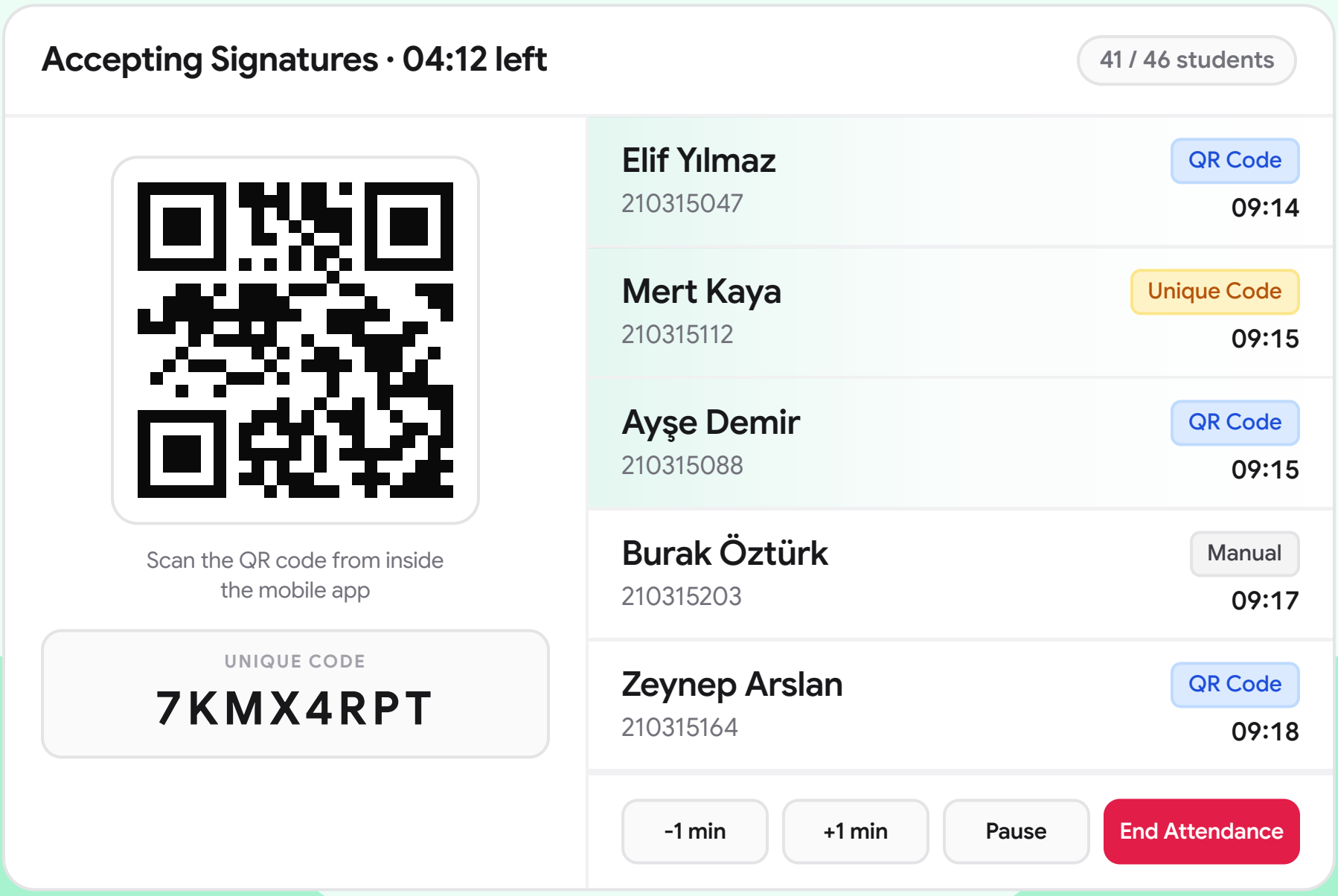


Education type is set as **Face to Face** or **Online** before the session starts. Week lock and lecture hour limits do not apply to a makeup class.

LIVE ATTENDANCE

The QR code refreshes every ten seconds

A screenshot sent to a friend is useless: the incoming code is compared with the code on screen at that moment. A student who cannot scan uses the **Unique Code**, and one without a phone is added with **Add Participant Manually** by the instructor.



The right panel has three tabs: **Participants**, **Device Analysis** and **Location Analysis**. A signature recorded by mistake can be deleted before the session ends.

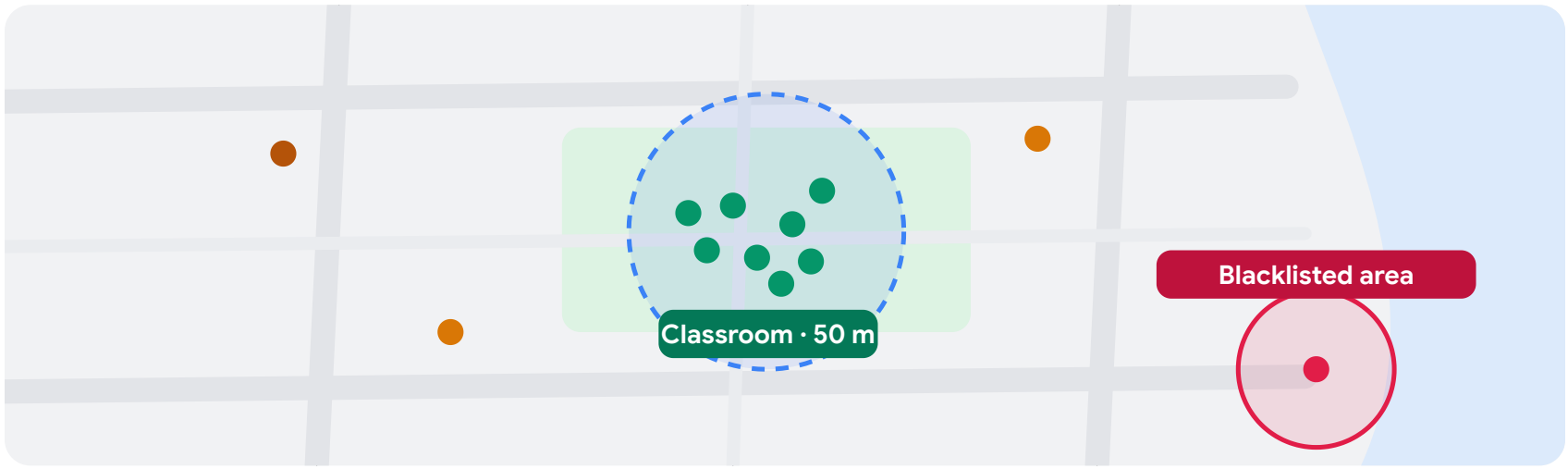
LOCATION VERIFICATION

You can see where each signature came from

The system clusters the signatures to find the real center of the classroom, then flags each signature by its distance from that center. A signature from off campus stands apart in the list.

Location Analysis · BİL 2104

41 signatures



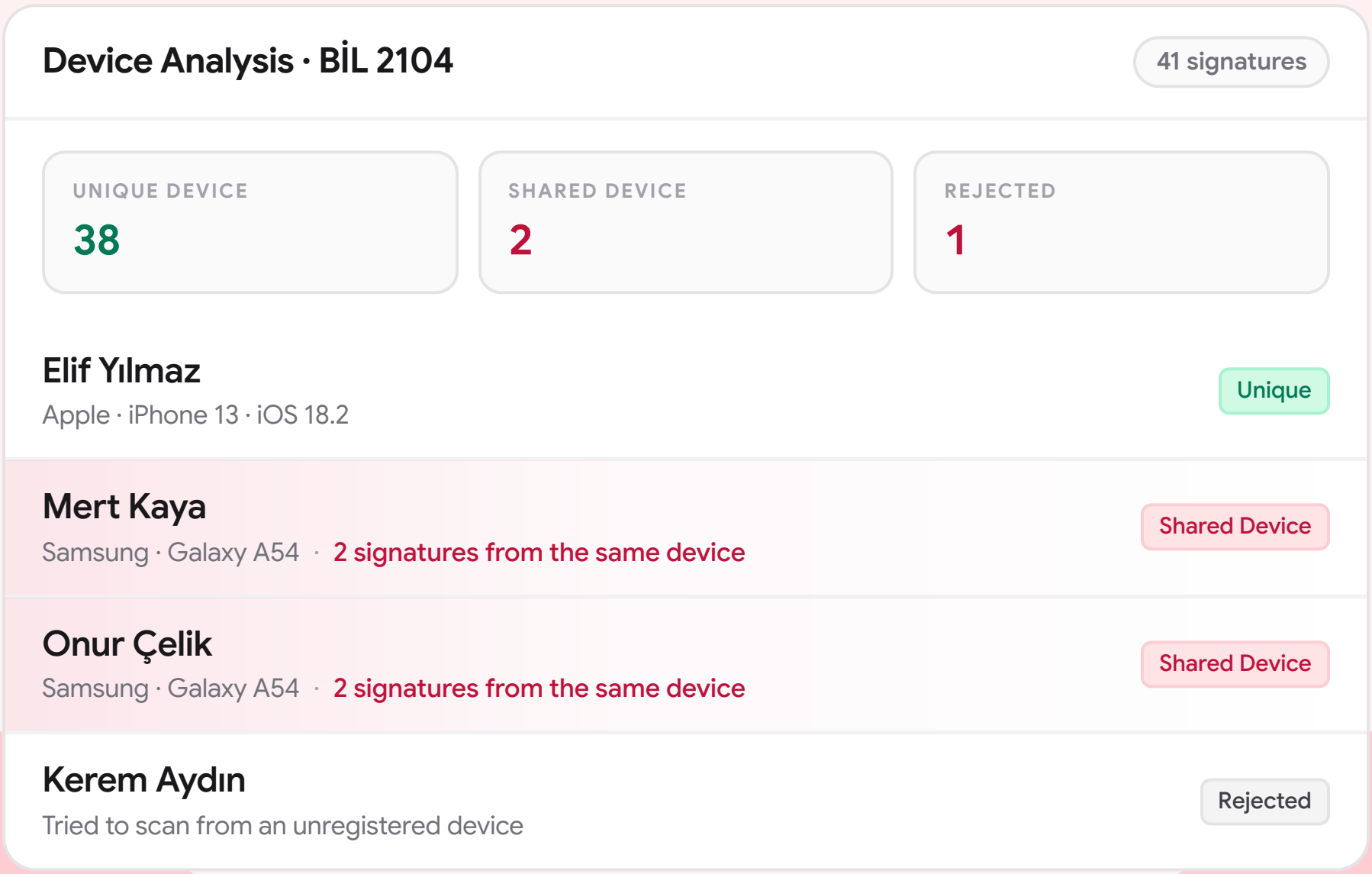
Normal	Up to 50 metres from the classroom	36
Suspicious	Up to 150 metres	3
Risky	Up to 300 metres	1
Fake	Beyond 300 metres or inside a blacklisted area	1

The system never deletes a signature on its own, it flags it. The **Reject Record** decision stays with the instructor. Sending the same coordinates over and over is caught separately.

DEVICE ANALYSIS

One student, one device

A student account is bound to a single phone. An attempt from another device is rejected, and every device change is counted and recorded. If two people sign from the same phone, both are flagged as **Shared Device** in the analysis.



Students can see and remove their registered device from their own screen. How many times they changed it is visible to the administrator. **No biometric data is collected**: no fingerprints, no face recognition.

ATTENDANCE RULE

Absence is counted in hours

A student who attends one hour of a two hour lecture is half a week absent. Once a lecture reaches ten weeks the week allowance applies, before that the attendance percentage does.

BİL 2104 Data Structures · Elif Yılmaz — 14 weeks · 2 hours per week

Lecture hours in the term (14 weeks × 2 hours)	**28 hours**
Hours attended	**23 hours**
Hours absent	**5 hours**
Week equivalent (5 hours ÷ 2 hours)	**2.5 weeks**
Absent week allowance	**5 weeks**
Result	**Meets rule**

PH · Public Holiday | EW · Exam Week | BR · Before Registration | E · Exempt

A public holiday week never enters the denominator because no lecture is held. No attendance is opened in exam week, but it counts toward the ten week threshold. Repeat and grade improvement students, and lectures on the exempt list, are outside the attendance requirement. **Sample calculation**, thresholds can be changed from the admin panel.

ATTENDANCE PREVIEW

Students can see their own risk

Past attendance is already filled in. The student marks the remaining weeks and sees the result instantly. Fewer students fail on attendance, and there are fewer appeals.

Attendance Preview · BİL 2104 Data Structures — Attendance threshold 5 weeks

WK 1	WK 2	WK 3	WK 4	WK 5	WK 6	WK 7
Attended	Attended	Absent	Attended	Partial	Attended	Exam Week

WK 8	WK 9	WK 10	WK 11	WK 12	WK 13	WK 14
Attended	Absent	Attended	Will not attend	Will not attend	Will not attend	Mark

CURRENT STATUS	PREVIEW RESULT	ABSENT WEEKS
Meets rule	At risk of failing	2.5 → 5.5

Simulation Summary — 3 weeks marked

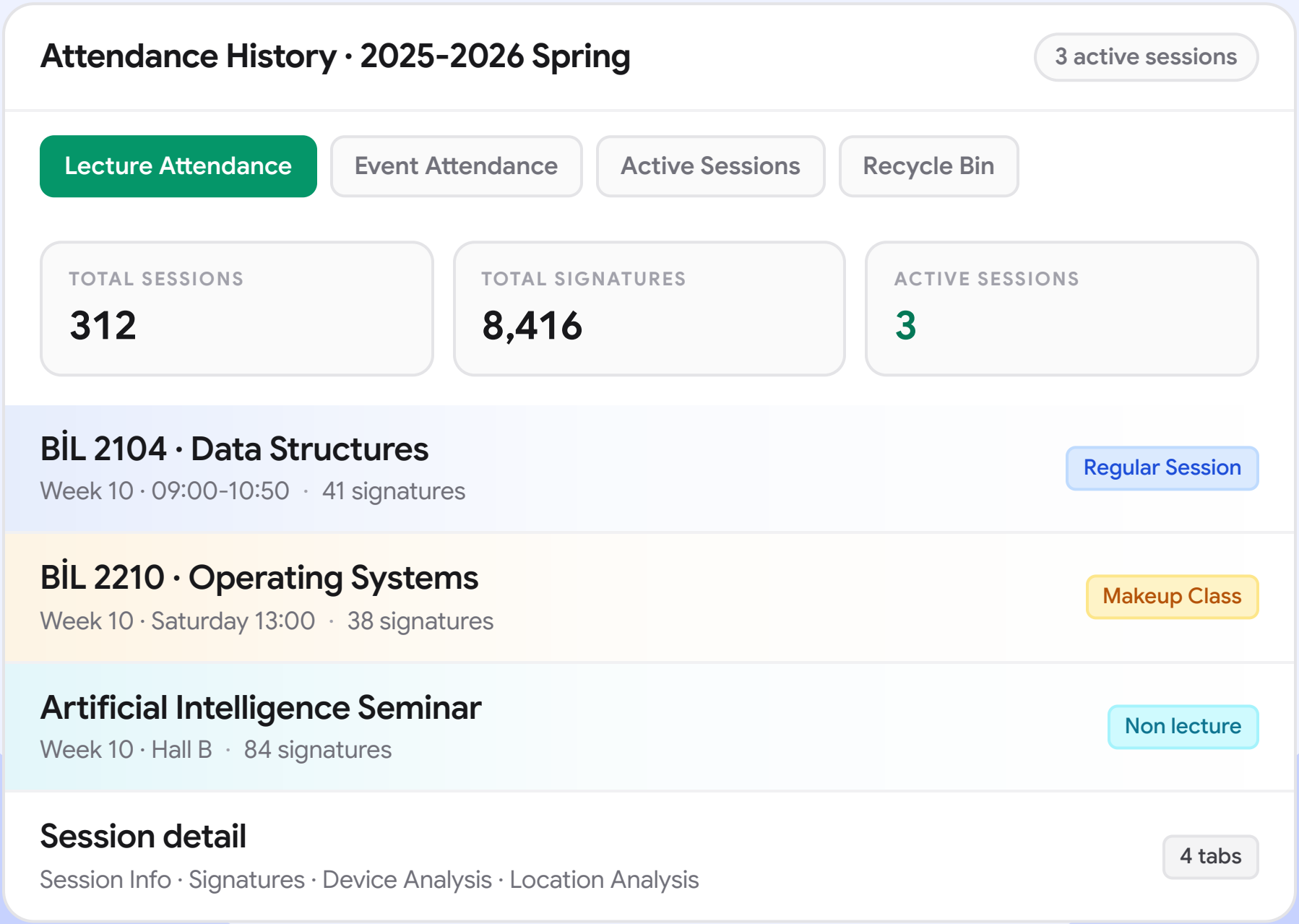
Sessions that can still be missed on current data	2
Sessions that can be missed after this plan	0

The last three weeks were set to **Will not attend** so absence rises from 2.5 weeks to 5.5 and goes past the 5 week allowance.

ATTENDANCE HISTORY

Every signature leaves a trail

The term opens week by week and lecture by lecture. Click a session and the signatures, the device and the location breakdown appear. A deleted session waits in the recycle bin.



Actions such as moving a signature, deleting it or granting an exemption are written to the **Audit Logs**, and they can be undone.

REPORTS AND OBS

One Excel at the end of term

The list of students failing on attendance comes out ready for the student information system. Exempt lectures drop off that list on their own.

Reports

Excel and PDF

Attendance Statistics

Lecture × week matrix, editable table

XLSX

Signature List

A printout that replaces the wet signature sheet

PDF

Absence Analysis

Students at risk of failing, during the term

Risk

OBS Export

End of term

Simple download

Only students failing on attendance: student number and status

Excel

Detailed download

Lecture × student matrix, selectable columns

Excel

Attendance Analysis → Term Finalization → OBS Excel

Students, instructors and the lecture schedule are refreshed from the student information system **every night at 04:00** automatically. Term finalization and the OBS export both ask for a second confirmation.

EVENTS AND VENUES

400 people in a hall are counted too

Seminars, symposiums, congresses. A venue session can stay open for up to twelve hours, and for events such as a career fair a QR code with no end time is used.

Seminar | Conference | Symposium | Panel | Congress

Venue Session · Hall B — 312 signatures

Single Session — Selected
One block, no break

Single Session + Break
One block with a break

Multiple Sessions
Several blocks within the day

Automatic Duration — Secure
The server calculates it, the client cannot change it

Internship · Students — 92% attendance

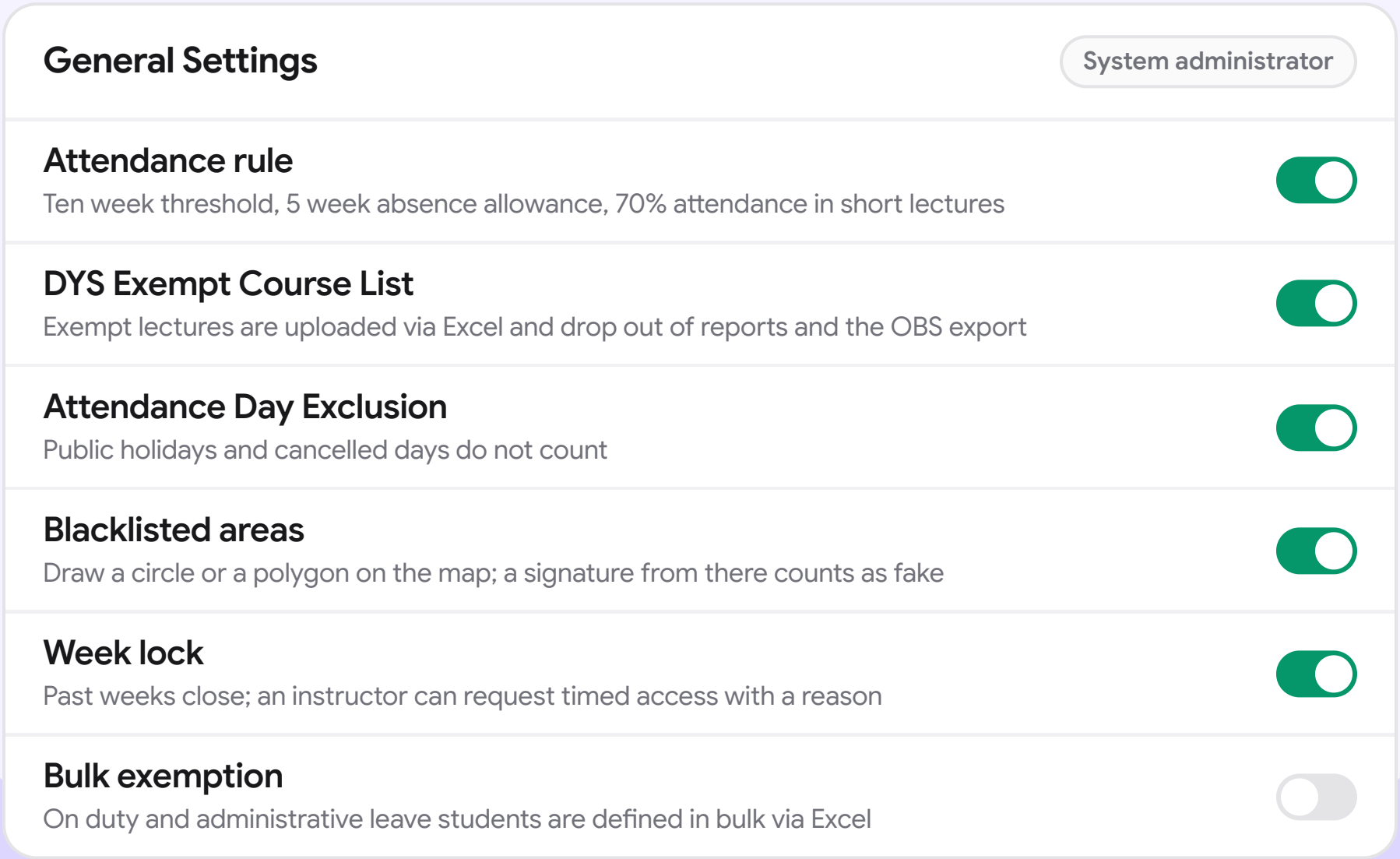
Zeynep Arslan — 42 / 45 days
Elektrik Bakım A.Ş. · Advisor: Dr. Kaya

A signature given at a non lecture event can be moved to the student's own lecture, leaving an audit trail. If it was wrong, it is undone.

ADMIN PANEL

The rules are yours, the system enforces them

Attendance thresholds, exempt lectures, holidays and blacklisted areas are all defined from the admin panel.



System Administrator | Instructor | Student | Student Affairs | Event Manager | Company

No turnstiles. The system runs on campus.

No card readers, no fingerprint devices, no new hardware to buy. The application runs on the university's own server and students sign from their own phones.

- No biometric data is collected
- Data never leaves the campus and no external cloud is used
- Synchronized with the student information system every night
- Live in production at Manisa Celal Bayar University

For all your AI powered digital solutions

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