

What's in ?

- 1.Experience. full day in a dynamic fintech enviornment.
- 2.Business exposure with a key market player.
- 3.Meet with hiring managers.
- 4.Present your work to Board Of Directors.
- 5.Get Trained on pitching and fund rasining.
- 6.Opportunity to win internship assignments.
- 7.Reserve an employment slot.
- 8.Obtain valuable Certificate of Achievemnet.

	<u>Start</u>	<u>End</u>
<u>Application Phase</u>	7 June 2024	10 June 2024
<u>Engagement Phase</u> <u>In Office</u>	12 June 2024	30 June 2024
<u>Rehersal Phase</u> <u>In office & College</u>	1 July 2024	4 July 2024
<u>Closure in College</u>	10 July 2024	

WHAT YOU WILL DO

- 1.REVERSE ENGINEERING.
- 2.SOFTWARE DEVELOPEMENT.
- 3.REAL INTEGRATIONS.
- 4.TEST AUTOMATIONS.
- 5.PACKAGING & DEPLOYMENT.

Eligibility and terms

- **4th** grade, Faculty of Computer Science, Ain shams university.
- For new applicants **Contact form** must be submitted, for those who already applied no need to re-submit
- For new applicants to the projec, Technologies **FIGMA++**, **Java**, **.NET**, **Python**, **NodeJs**, **REACT**, **Flutter**, **Android java or kotlen**, **Automation**, **HUGE EDGE for Syllenium, Image processing and NLP.**
- The Applicants must review and submit **Enrollement Form**.
- Accepted applicants commit to **(10 am - 4 am)**, **Two days working from home**.
- The hiring managers shall judge only **complete integrated projects**.

CONTACT FORM

<https://forms.gle/W71zaCk18n7y7RrA8>



Project 1a - Academic Balances Portal

Values - Bulk Calculations, Bulk Files

Client - Academic professors

Partners - Universities

Mobile Business requirements (**Requests**)

1. **Courses configurations**

- a. Create University tree.
- b. Create Courses.
- c. Create Professors.

2. **Transfer File**

- a. Download **Transfers template**
- b. Upload and process **Transfers File**.
- c. View and filter File Records.
- d. Edit and Delete records.

3. **Balances confirmation**

- a. Filter Academic years.
- b. Calculate Sum of transfer amounts per academic year
- c. Calculate course share of transfer amounts
- d. Calculate professors share of transfer amounts
- e. Admin can View, Filter Academic Courses and Professors amounts.
- f. Admin Edit and Delete records.
- g. Admin can Donwload records
- h. Admin can confirm bulk of records.

Usecase 1: Before recieveing tution payments from students, Admin must configure new universities, faculties, academic year and courses.

Usecase 2: Admin can add number of hours per course and number of professors that deliver the course, each professor has his own share in the course.

Usecase 3: After recieveing tution payments from students, Momkn shall extract tarnsfers file and the Admin shall upload it on this portal.

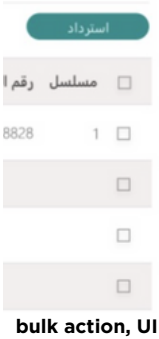
Usecase 4: Once transfers file is uploaded, the system shall calculate the professors shares in the course.

Business Example

- 1. **Parent Account** Ain Shams university
- 2. **Child Account** Faculty of Computer Science
- 3. Assume, **Academic year** 1 = **40 hours**
- 4. Assume, **Academic Year** 1 = **2 courses**
- 5. Assume, **Course A** = **10 hours**.
- 6. Assume, **Course B** = **30 Hours**
- 7. Assume, Course **A** has **two professors**
- 8. **Prof A** = **25%**, **Prof B** = **75%**
- 9. Assume, **Course B** has **two professors**
- 10. **Prof B** = **50%**, **Prof C** = **50%**

balances Calculation example

- 1. Upload **trasnfers file**.
- 2. Iterate **Parent, Child and Academic N**
- 3. **Sum of transers** of Academic 1 = **1 Million EGP**
- 4. **Course A** share = 1 Million*10/(40) = **250 K EGP**
- 5. **Course B** share = 1 Million*30/(40) = **750 K EGP**
- 6. **Prof A share in Course A** = 250K*25 = **62.5 K EGP**
- 7. **Prof B share in Course A**= 250K* 75% = **187.5 K EGP**
- 8. **Prof B share in Course B**= 750K* 50% = **325 K EGP**
- 9. **Prof B share** = 325 + 187.5 = **512 K EGP**
- 10. **Prof C share in Course B**= 750K* 50%= **187.5 K EGP**



	<u>Mobile</u>	<u>Front</u>	<u>Backend</u>	<u>DB</u>	<u>Scrum</u>
Education Portal	NA	REACT	Python / .NET	SQL	Asana

Project 1b - Cash out App

Values - KYC, Receieve notifications, Cash out
Client - Academic Professors
Partners - Universities

Mobile Business requirements (**Requests**)

- 1. **Professor load his National ID:**
 - a. Capture Clear Arabic document Image + instrcutions.
 - b. Send to backend.
 - c. Backend to Parsine, Store NID data
 - d. View and Confirm NID Data form.
 - e. Static QR code
- 2. **Professor recieve Bulk Notification**
 - a. Recieve Notifications.
 - b. View Notification.
- 3. **Professor Cash out**
 - a. Balance Inquiry.
 - b. Cash out form (Amount)
 - c. Cash-out Approval
 - d. Generate **Code**.
 - e. Payment confirmation.

Usecase 1: Academic staff shall use the application to store their National ID data, then present it these data in a QR form.
Usecase 2: from project 1b, Consumers shall use the application to be notified with his balance update
Usecase 3: Academic staff can generate cashoiut code and confirm payout.

Web Portal

- 1. Academic Balance portal (inetgarted with project 1b)
- 2. Bulk Notification tool



	<u>Mobile</u>	<u>Front</u>	<u>Backend</u>	<u>DB</u>	<u>Scrum</u>
Cashout App	Android	Any	Java	SQL	Asana

Project 2 - Super App

Values - Access Control, Ordering, Services booking
Client - Students
Partners - Gated Communities

Mobile Business requirements (**Requests**)

1. Student load his National ID:

- a. Capture Clear Arabic document Image + instrcutions.
- b. Send to backend.
- c. Backend to Parsine, Store NID data
- d. View and Confirm NID Data form.
- e. Static QR code

2. QR Access

- a. Scanning by security Agent Mobile.
- b. Validation by security Agent Mobile.

3. Ordering

- a. Catalog Sync.
- b. SKU Inquiry.
- c. SKU Book.
- d. SKU Process
- e. SKU Report
- f. Invoicing Report

4. Service Booking

- a. Book Service.
- b. Book Service Agent.
- c. Book Schedule.



Usecase 1: Security agent can scan QR and verify QR code of a student

Usecase 2:

- Students can book service (like بيان نجاح,
- book schedule like نشاط رياضي أحد - وثلاثاء الساعة 5
- book service Agent like عيادة باطنة - دكتور أيمن

Usecase 3: Student can order from inventory

Usecase 4: Student can view services and orders history

Web Portal

- 1. Display Three summary pages a table with filters one for Access, Ordering and Services booking
- 2. Select and view one request details .approve or reject, one by or one.
- 3. Can Approve or reject by services in a bulk actions



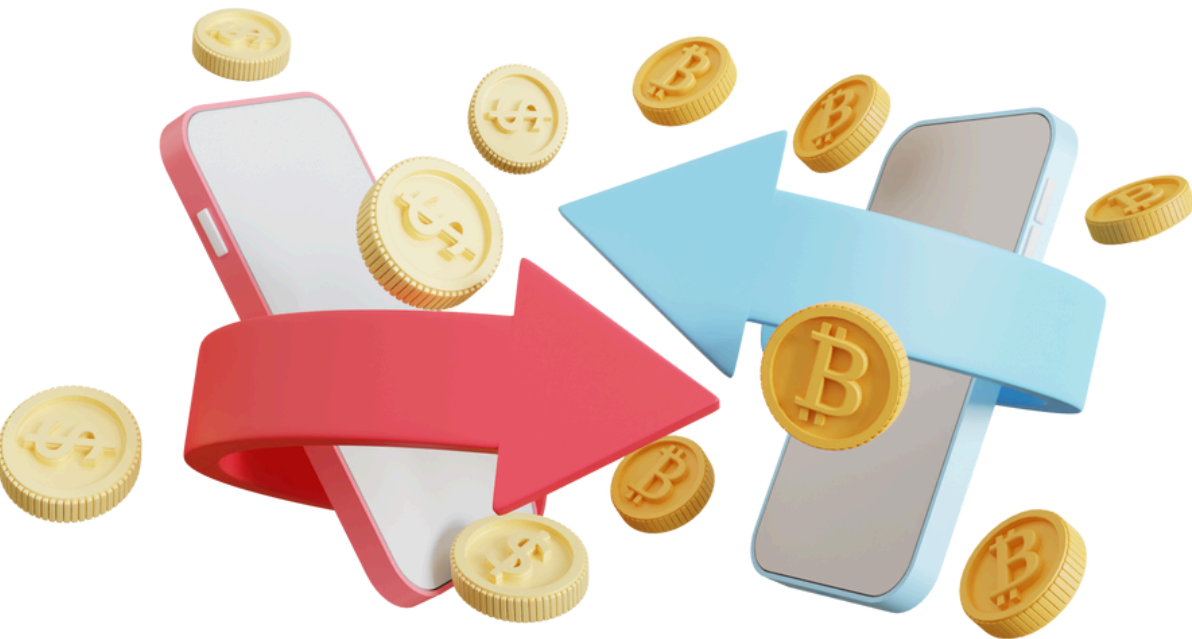
	<u>Mobile</u>	<u>Front</u>	<u>Backend</u>	<u>DB</u>	<u>Scrum</u>
Community App	Flutter	REACT	Node Js	Mongo	Asana

Project 3 - Wallet Settlement Portal

Values - Wallet Control - End of day activity
Client - Financial corporates
Partners - Banks

https://docs.google.com/presentation/d/19K9kO3Shcm-gHXwwwv4x_9hm3nrlO1RFk/edit?usp=drive_link&ouid=103534225127920389816&rtpof=true&sd=true

- Usecase 1:** Corporate user upload deposit data
- Usecase 2:** Bank user approve or reject deposit data
- Usecase 3:** Bank user can make balance correction (add/deduct) amount.
- Usecase 4:** Bank and coprorates can view the updated corporate balance
- Usecase 5:** Bank and coprorates can view the transactions made on corporate balance
- Usecase 6:** Bank and coprorates can view Opening and closing balances



	<u>Mobile</u>	<u>Front</u>	<u>Backend</u>	<u>DB</u>	<u>Scrum</u>
Education Portal	NA	REACT	Node Js	SQL	Asana

Sequence diagrams

[https://drive.google.com/file/d/1B7NNMrBmSF_rkRHkkLdTNP8GaffrjSXt/view?
usp=drive_link](https://drive.google.com/file/d/1B7NNMrBmSF_rkRHkkLdTNP8GaffrjSXt/view?usp=drive_link)