

A man with a beard and glasses is sitting at a wooden desk, working on a silver laptop. He is wearing a light blue and white striped button-down shirt. On the desk, there is an open notebook, a yellow sticky note, and a black pen. Behind him is a black metal shelving unit with various items on it, including a printer and some containers. The background is a red brick wall.

SkillWallet

Bridging the skill gap with a verified skill portfolio



- **By 2030, a billion jobs are liable to be radically transformed by technology**
- **By 2022, everyone would need an extra 100+ hours of learning**
- **Less than 3% of children born in 2000 in less developed countries are in higher education**
- **Substantial inequalities in access**

BRIDGE THE



Skill-gap

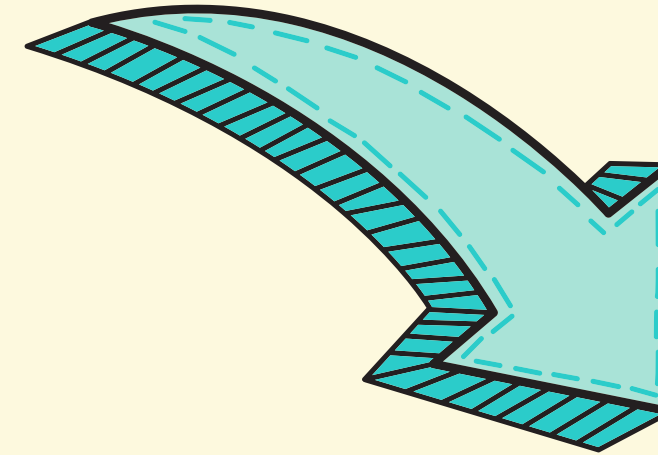
Learner's journey



Learners
Students
Graduates
Professionals

- What should I learn to become a data scientist?
- How do I stay relevant in this changing world?
- Should I do X course or Y course?
- Are my learning credentials secure?

- Where can I get candidates with the skills I need?
- How can I simplify skill/credential verification?



Universities



- How can I ensure issued learning credentials are tamper-proof?
- How do I get more learners to finish the course?
- How do I get more people to learn from me?

Online course providers



Recruiters

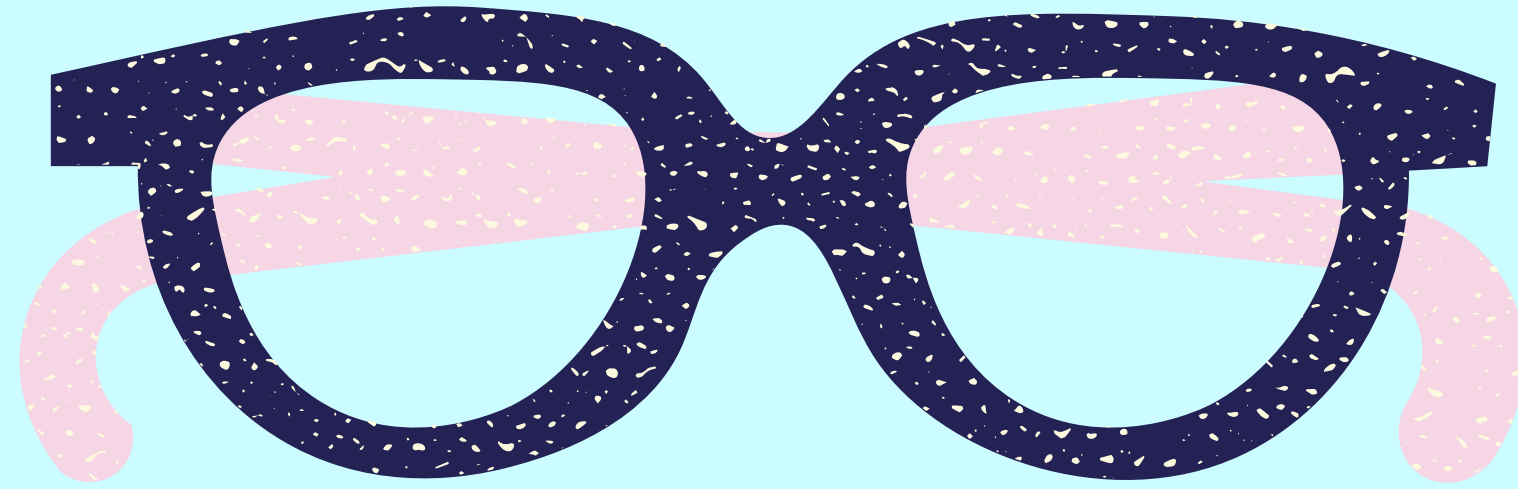


Companies

We surveyed online learners

- Top reasons of e-learning resistance:
Too many courses to choose from
No Motivation to Learn
- **97%** at least have a career path in mind but not sure how to start
- **80%** only reflect upon their skillset when writing their resume
- **70%** have privacy concerns about disclosing their identity online while showcasing your skillsets or taking an online course





Several problems

One solution to rule them all

SkillWallet

Introducing **SkillWallet**



Upskill using
personalized **learning**
paths



Earn **rewards** for
learning and redeem
them for more
courses



Online **skill portfolio**
to showcase your
blockchain verified
skills

Streamlining the **skill-based economy**

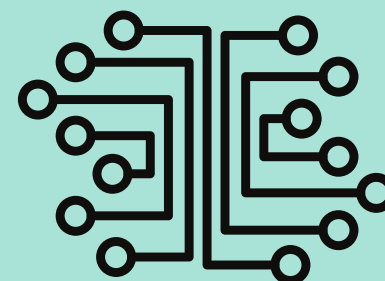




- Portfolio verification
- Access to verified skill profiles
- Application integration to SkillWallet for job application process

Recruiters

Learning Pathway Recommendation Engine



- Learning pathway recommendations based on past learners and professionals
- K-mode clustering

Consortium Blockchain




- Hyperledger Sawtooth
- Stored on Blockchain
 - Certificates
 - Reward points
 - Access permissions
- Cryptowerk for paper-based certificates



Miners

- Get paid a fixed amount for creating blocks on the chain

Course providers

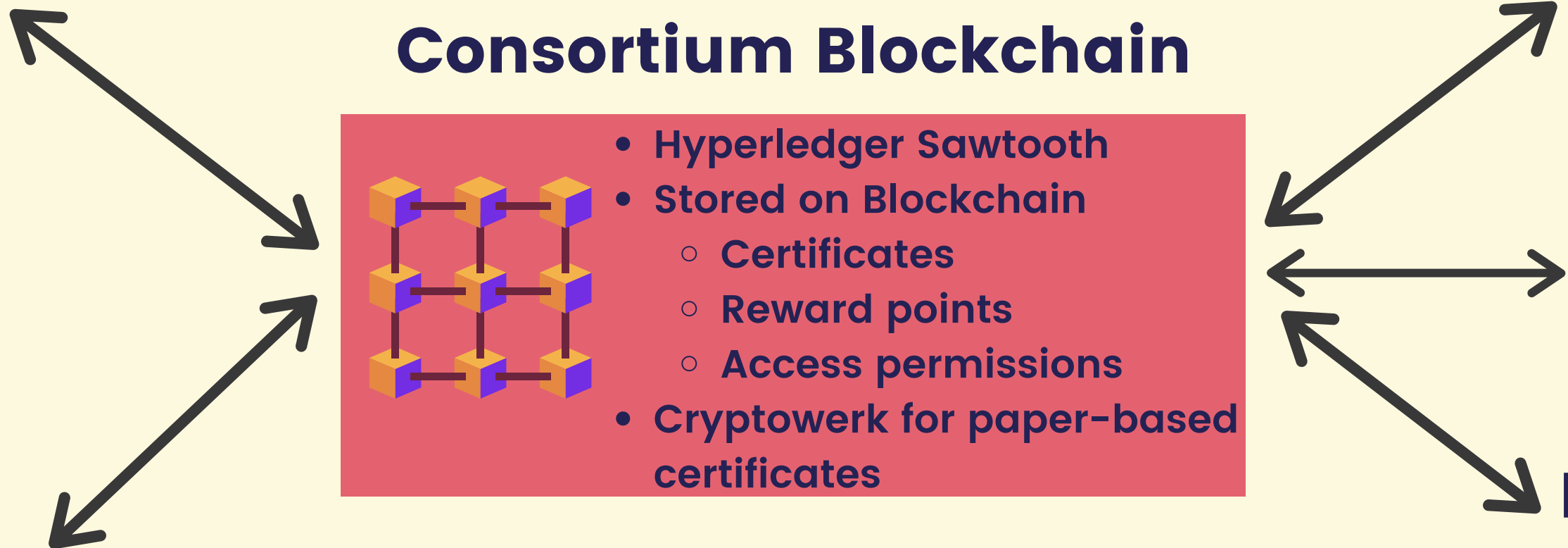


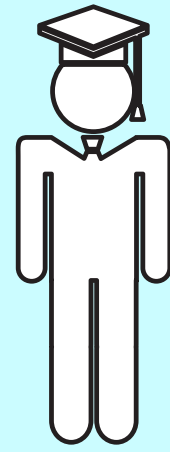
- Users incentivized to complete courses
- Sales via reward redemption and SkillWallet affiliate
- Secure credentials

Learners



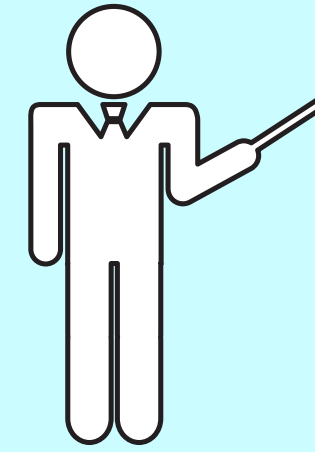
- Learning pathway recommendation system
- Reward mechanism for learners
- Verified skill portfolio





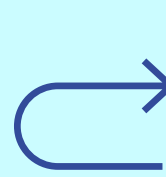
Learner

Blockchain Use-case 1 Generation and recording of validated credentials on the SkillWallet chain



Certifier / Issuer

1. Learner Registers Personal ID Credential



2. Generate or fill in completed course details as learning credential



3. Learner signs the certificate with Private key and sends metadata and digital signature

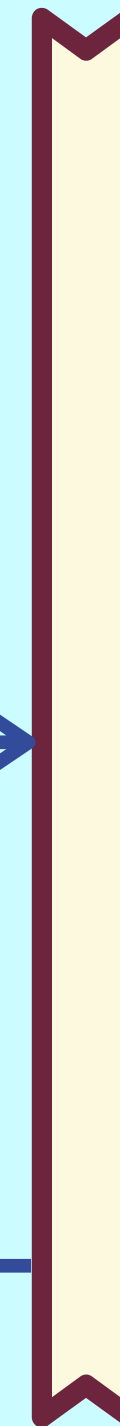


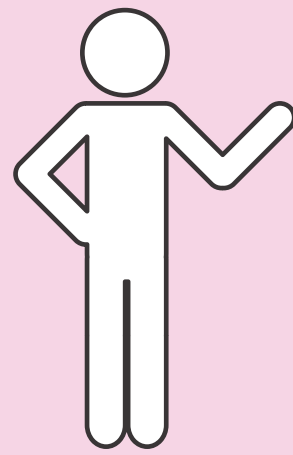
4. Transaction validation algorithm checks metadata and dig sig structure / validity and commits to the blockchain.

6. Transaction validation algorithm checks digital signature by the issuer and commits to the chain. Skillpoints (rewards) get saved as well.



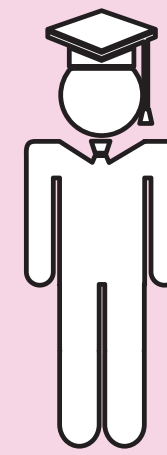
5. Issuer issues his digital signature upon validation





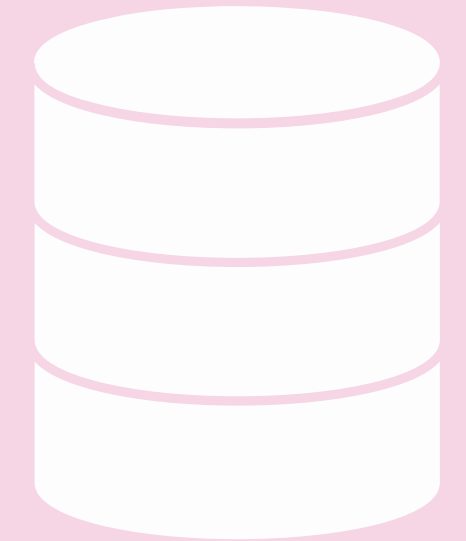
Employer

Blockchain Use-case 2 Sharing of validated learning credentials with a 3rd party (ex. recruiter)



Learner

1. Requests for validated learning credentials on the chain.



2. Verify address of requesting party using a public key registry

3. Provide transaction ID on chain

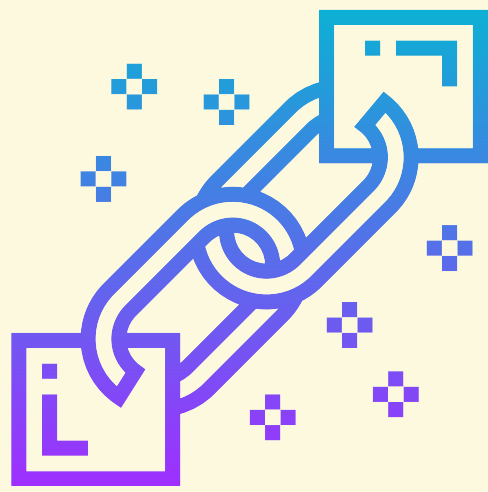


5. Refers to data provided as proof of learning



4. Shares confidential info in QR code format for hash-verification





Why Blockchain?

- Decentralized
- Immutable
- Transparent
- Trust-less
- Shared



Why Hyperledger?

- Enterprise Consortium Blockchain
- Event driven architecture
- Dynamic Consensus
- High level language can be used for app specific transaction validation rules (ex. Python)
- No built-in cryptocurrency



Why Cryptowerk?

- Seal API to seal and verify the integrity of 3rd party data
- Secure: Only digital fingerprints anchored.
- Interoperability
- Easy integration

Competitors

- **BlockCerts, CertChain, Open Badge** – Provide Standards for Blockchain verified Credentials but need high levels of tech expertise to leverage them.
- **ClassCentral.com** – Only collates all online courses. Not tech-driven or learner-centric, no personalized recommendations.



Market Impact

Address the skill gap by

- Fostering Lifelong Learning in a fast changing world
- Functioning as a glue for the fragmented ed-tech industry
- Streamlining the interactions between learners, course providers and recruiters

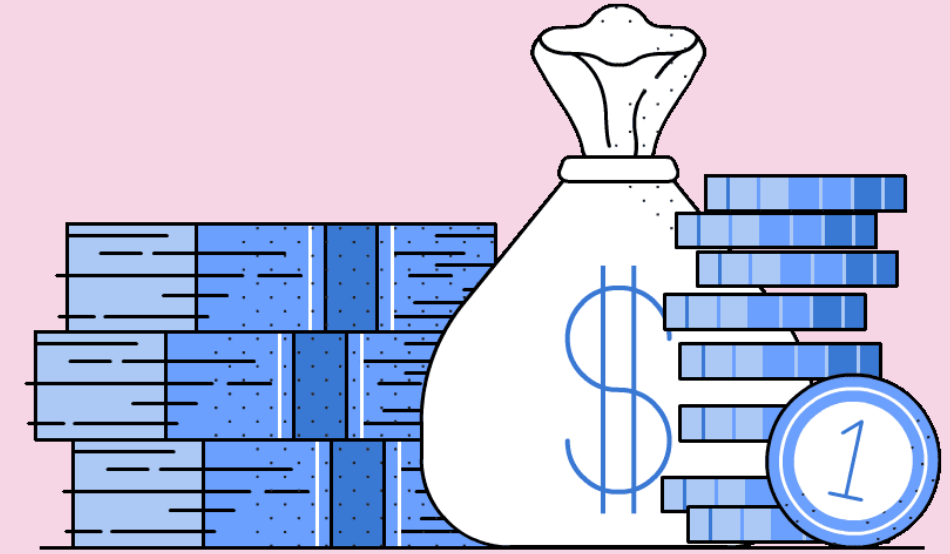
Make Blockchain mainstream through seamless integration



Market Size

Market	2019	2026	CAGR
MOOC	3.2	13.4	22.7%
E-learning (in USD billions)	200	375	8%

Huge opportunity
for streamlining
and aggregation



Business Model

Subscription



B2B: Enterprise/School
B2C: Freemium

Advertisements /
Affiliates



E-learning Partners,
Course Providers

Community events



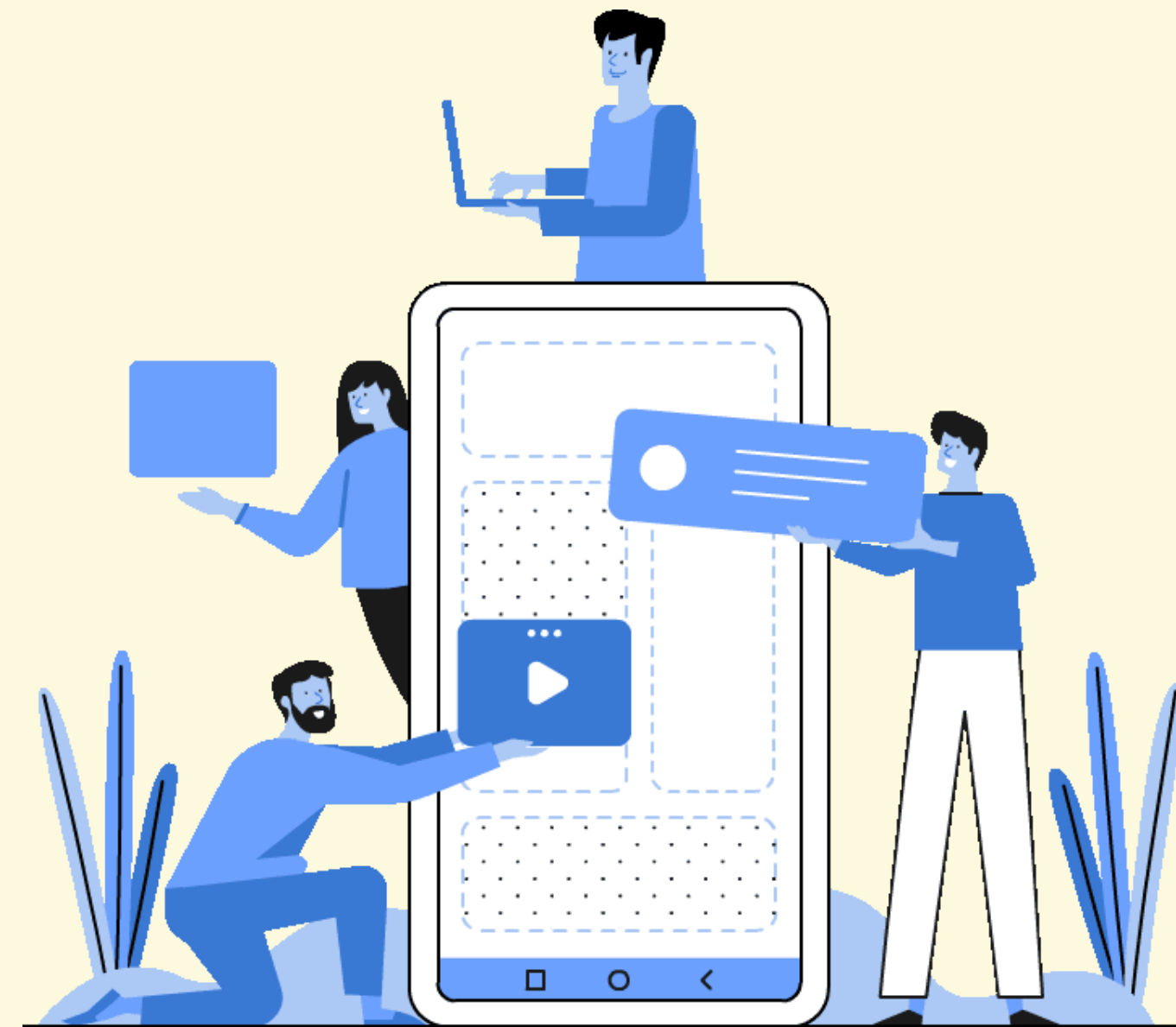
Community Chapters
Skill workshops
Partner Events



Why us?

We are a team of 6 people who

- Have **complimentary skillsets** - Technology leadership, Marketing, Blockchain, Data Science and Engineering
- Are early adopters of **emerging technology**
- Together completed **100+ e-learning courses**
- **Life long learners** determined to improve access to inclusive and equitable quality higher education



Next steps

We aim to focus on B2C first (to attract learners to our platform via learning pathways and SkillWallet portfolio).

A strong B2C community will help us to easily gain B2B partners.



Step 1 - Hackathon

PROOF OF CONCEPT/MVP



Step 2 - Initial Launch

LEARNING PATHWAYS / SKILL WALLET TO ATTRACT B2C USERS



Step 3 - Partnerships

COURSE PROVIDERS/RECRUITERS



Step 4 - One stop shop

FOR ALL LEARNING NEEDS



**THANK
YOU**

We are grateful to "The Babylon Project" team and the mentors for your support.

**Team: Supriya Medapati, Ha Linh To, Suchira Banerjee,
Meher Shashwat Nigam, Adhithya Arun, Aryan Vikas Jain**