

Resource-for-Equity Startup Support Platform LAB 9

Name: Ali Abumansour

Date: 7/31/2025

- Problem:

Many early-stage startups lack the capital to acquire essential resources (like office space, devices, or cloud servers). At the same time, individuals or companies often have unused resources they could lend — but there's no structured system to connect both sides under fair terms.

- Solution:

A platform that allows resource providers to offer their tools, spaces, or services to startups in exchange for a negotiated equity percentage — instead of money.

Startups submit requests for available resources, and once approved, an agreement is formed with a clear equity share.

System tables overview: -

| Tables | |
|--------|-------------------|
| 1 | Startups |
| 2 | ResourceProviders |
| 3 | Resource |
| 4 | ResourceRequest |
| 5 | Rates |

note: diagram is on page 6.

1. Table: ResourceProviders

Represents the entities (individuals or companies) that offer resources to startups.

Fields:

- id (VARCHAR 10): (Primary Key) Unique identifier for the resource provider.
- name (VARCHAR 20): (NOT NULL) The name of the provider.
- email (VARCHAR 30): (NOT NULL) Contact email address of the provider.

2. Table: Resources

Represents the resources made available by providers.

Fields:

- id (VARCHAR 10): (Primary Key) Unique identifier for the resource.
- name (VARCHAR 20): (NOT NULL) Name or title of the resource.
- type (VARCHAR 20): (NOT NULL) Type or category of the resource.
- provider_id ((VARCHAR 10), Foreign Key): References the ID of the provider from the ResourceProviders table.

3. Table: Startups

Represents startup companies that can request resources.

Fields:

- id (VARCHAR 10): (Primary Key) Unique identifier for the startup.
- name (VARCHAR 20): (NOT NULL) Name of the startup.
- sector (VARCHAR 20): (NOT NULL) The industry or field the startup operates.
- email (VARCHAR 30): Contact email address of the startup.

4. Table: ResourceRequests

Represents resource requests submitted by startups.

Fields:

- id (VARCHAR 10): (Primary Key) Unique identifier for the request.
- startup_id ((VARCHAR 10), Foreign Key): References the requesting startup from the Startups table.
- resource_id ((VARCHAR 10), Foreign Key): References the requested resource from the Resources table.
- description (TEXT): (NOT NULL) A detailed description of the resource.
- request_date (TIMESTAMP): (NOT NULL)(DEFAULT CURRENT_TIMESTAMP) The date the request was submitted.
- status (VARCHAR 10): (NOT NULL) (CHECK) Status of the request. Possible values: Pending, Approved, Rejected.
- agreement_percentage (DOUBLE): (NOT NULL) The agreed percentage between the startup and the provider

5. Table: Rates

Represents feedback and ratings provided by startups for the resources they used.

Fields:

- id (VARCHAR 10): (Primary Key) Unique identifier for the rating.
- request_id ((VARCHAR 10), Foreign Key): References the resource request being rated from the ResourceRequests table.
- rating (INT):(NOT NULL) (CHECK) usually from 1 to 5, a numeric rating score.
- comments (TEXT): (NOT NULL) Written feedback or review provided by the startup.
- rated_at (TIMESTAMP): (NOT NULL) Date when the rating was submitted.

Relationships Summary

- One ResourceProvider can offer many Resources.
- One Resource can be requested by many Startups.
- One Startup can submit many ResourceRequests.
- Each ResourceRequest can have only one Rate.

Entity Relationship Diagram:-

