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| Project |
| Attributes :   * **project\_id: String** [PK] * **title: String** * **description: String** * **creator: Backer** [FK] * **category: Category** [FK] * **goal\_amount: Float** * **current\_amount: Float** * **start\_date: Date** * **end\_date: Date** * **status: String** * **updates: List<Update>** * **rewards: List<Reward>** * **backers: List<Backer>** |
| Operations:   * **create\_project(title, description, creator, category, goal\_amount, start\_date, end\_date)** * **update\_project\_details(title, description, category, goal\_amount, start\_date, end\_date)** * **add\_update(update)** * **add\_reward(reward)** * **add\_backer(backer)** * **calculate\_funding\_percentage()** * **check\_funding\_status()** * **close\_project()** |

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| Backer |
| **Attributes:**   * **backer\_id: String** [PK] * **name: String** * **email: String** * **backed\_projects: List<Project>** [FK] * **payment\_info: Payment** [FK] |
| **Operations (Methods):**   * **register(name, email, password)** * **login(email, password)** * **update\_profile(name, email)** * **back\_project(project, amount)** * **view\_backed\_projects()** * **make\_payment(payment)** |

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| Campaign |
| **Attributes:**   * **campaign\_id: String** [PK] * **project: Project** [FK] * **start\_date: Date** * **end\_date: Date** * **target\_amount: Float** * **raised\_amount: Float** * **status: String** |
| **Operations (Methods):**   * **start\_campaign(project, start\_date, end\_date, target\_amount)** * **update\_campaign\_details(start\_date, end\_date, target\_amount)** * **add\_funds(amount)** * **check\_campaign\_status()** * **end\_campaign()** |

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| Payment |
| **Attributes:**   * **payment\_id: String** [PK] * **backer: Backer** [FK] * **project: Project** [FK] * **amount: Float** * **payment\_date: Date** * **payment\_method: String** * **status: String** |
| **Operations (Methods):**   * **process\_payment(backer, project, amount, payment\_method)** * **update\_payment\_status(status)** * **refund\_payment()** * **view\_payment\_details()** |

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| Reward |
| * **reward\_id: String** [PK] * **project: Project** [FK] * **description: String** * **amount\_required: Float** * **quantity\_available: Int** * **delivery\_date: Date** |
| * **create\_reward(project, description, amount\_required, quantity\_available, delivery\_date)** * **update\_reward\_details(description, amount\_required, quantity\_available, delivery\_date)** |

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| Category |
| **Attributes:**   * **category\_id: String** [PK] * **name: String** * **description: String** * **projects: List<Project>** |
| **Operations (Methods):**   * **create\_category(name, description)** * **update\_category\_details(name, description)** * **add\_project(project)** * **view\_projects()** |

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| Goal |
| **Attributes:**   * **goal\_id: String** [PK] * **project: Project** [FK] * **amount: Float** * **deadline: Date** |
| **Operations (Methods):**   * **set\_goal(project, amount, deadline)** * **update\_goal(amount, deadline)** * **check\_goal\_status()** * **extend\_deadline(new\_deadline)** |

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| Update |
| **Attributes:**   * **update\_id: String** [PK] * **project: Project** [FK] * **title: String** * **content: String** * **created\_at: Date** * **updated\_at: Date** |
| **Operations (Methods):**   * **create\_update(project, title, content)** * **edit\_update(title, content)** * **delete\_update()** * **view\_updates(project)** |

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| Comment |
| **Attributes:**   * **comment\_id: String** [PK] * **project: Project** [FK] * **backer: Backer** [FK] * **content: String** * **created\_at: Date** * **updated\_at: Date** |
| **Operations (Methods):**   * **post\_comment(project, backer, content)** * **edit\_comment(content)** * **delete\_comment()** * **view\_comments(project)** |

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| Report |
| **Attributes:**   * **report\_id: String** [PK] * **project: Project** [FK] * **backer: Backer** [FK] * **reason: String** * **details: String** * **created\_at: Date** * **status: String** |
| **Operations (Methods):**   * **file\_report(project, backer, reason, details)** * **update\_report\_status(status)** * **view\_report\_details()** * **resolve\_report()** |