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| --- | --- |
| Food | |
| Set amount | Raw Material |
| Selects which “printer” to be used(chef) | Kitchen |
| Calculate nutritional info |  |
| Are the needed raw materials available | Information-Management |
| Get price | Information-Management |
| Get nutritional info | Raw Material |

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| --- | --- |
| Create Food | |
| Set food’s name |  |
| Create new food | Food  Database |
| Show levels |  |
| Control levels |  |
| Show user’s history | Database |

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| --- | --- |
| Menu | |
| Outputs user’s orders in a ‘Cart’ | Cart |
| Show list of available foods | Food  Database |
| Recommend food based on user’s taste | User’s taste processor |

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| --- | --- |
| Cart | |
| Sends the total price to payment and receives validation | Payment |
| Send the foods after payment validation to ‘kitchen’ | Kitchen |
| Send the orders to delivery system | Delivery |
| Defines the information of the foods ordered | Food |
| Computer total cost | Food |
| Save user’s orders | Database |
| Check discount | Raw Material |

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| --- | --- |
| Login | |
| Get username and password |  |
| Send username and password for validation | Database |

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| --- | --- |
| Register | |
| Get registration data |  |
| Send message request to SMS API and get validation | SMS API |
| Save user’s data to database | Database |

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| Payment | |
| Get total cost from Cart | Cart |
| Show bank APIs |  |
| Send request (based on chosen payment method by user: Bank or credit) | Bank API  Database |
| Send payment validation | Cart |

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| --- | --- |
| User | |
| Increase credit | Database  Bank API |
| Get user’s “taste” | User’s taste processor |

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| Delivery | |
| Get ‘Cart’ | Cart |
| Print user’s attribute (Address, Phone number) with his/her order information (for outside delivery) | Database |

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| --- | --- |
| Kitchen | |
| Send food(s) to delivery | Delivery |
| Get food | Cart |

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| --- | --- |
| Database | |
| Authentication | Login |
| Add new user | Register |
| Add new provider |  |
| Update credit | Payment, User |
| Add user’s orders | User, Cart |
| Retrieve user’s 5 recent orders | User  User’s taste processor |

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| User’s taste processor | |
| Get user’s info | Database |
| Process user’s info |  |
| Send user’s taste | Menu |

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| Inventory | |
| Get raw Material | Owner |
| Check expiration date | Raw Material |
| Check availability | Food |

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| Resource Management | |
| Inventory refill | Provider API |
| Add/Edit/Remove provider’s info | Database |

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| --- | --- |
| Raw Material | |
| Stores info (name, expiration date, nutritional info) | Provider |
| Discount based on expiration date | Food |
| Discount based on user’s order record | User |