

ARCHITECT DESIGN

Văn Lang Admissions

# Revision Table

|  |  |  |  |
| --- | --- | --- | --- |
| Author | Date | Reason for changes | Version |
| Hien Nguyen | 06/02/2017 | Initial the document | 1.0 |
| Hien Nguyen | 09/02/2017 | Fix physical view level 0 and level 1 | 1.1 |

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# System Context

# Physical View

# Level 0



|  |  |  |  |
| --- | --- | --- | --- |
|  | Element | Software | Description |
| 1 | Web Server | Linux | Operation system |
|  |  | Apache | Simulate Web server |
|  |  | Nodejs 7.5 | Config Web server |
|  |  | Angular 2 | Display data on web browser |
|  |  | Ionic 2 | Display data on mobile browser |
| 2 | Database Server | Linux | Operation system |
|  |  | Mongodb 3.4 | Store database |
| 3 | Cache Engine | Linux | Operation system |
|  |  | Redis 3.2.7 | Select data from database |
| 4 | Search Engine | Linux | Operation system |
|  |  | Elastic search 1.7 | Search data |
| 5 | Image Server | Linux | Operation system |
|  |  |  |  |

# Level 1



# Rationale

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Quality Attribute | | Decision | |
| 1 | Performance | | We divide into multiple servers. Each server will execute fixed activities. | |
| Risk | | Trade off | | Sensitivity point |
| * When internet down, internal users will be unable to connect to server. | | * When implemented, the system will be costly and difficult to install. | | * When user login, the password will be encrypted. |

# Dynamic View

# Level 0



# Level 1



# Rationale

# Static View

# Level 0



# Level 1



# Rationale

# Mapping