

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 1 and level 2 | 1.1 |
|  |  |  |  |

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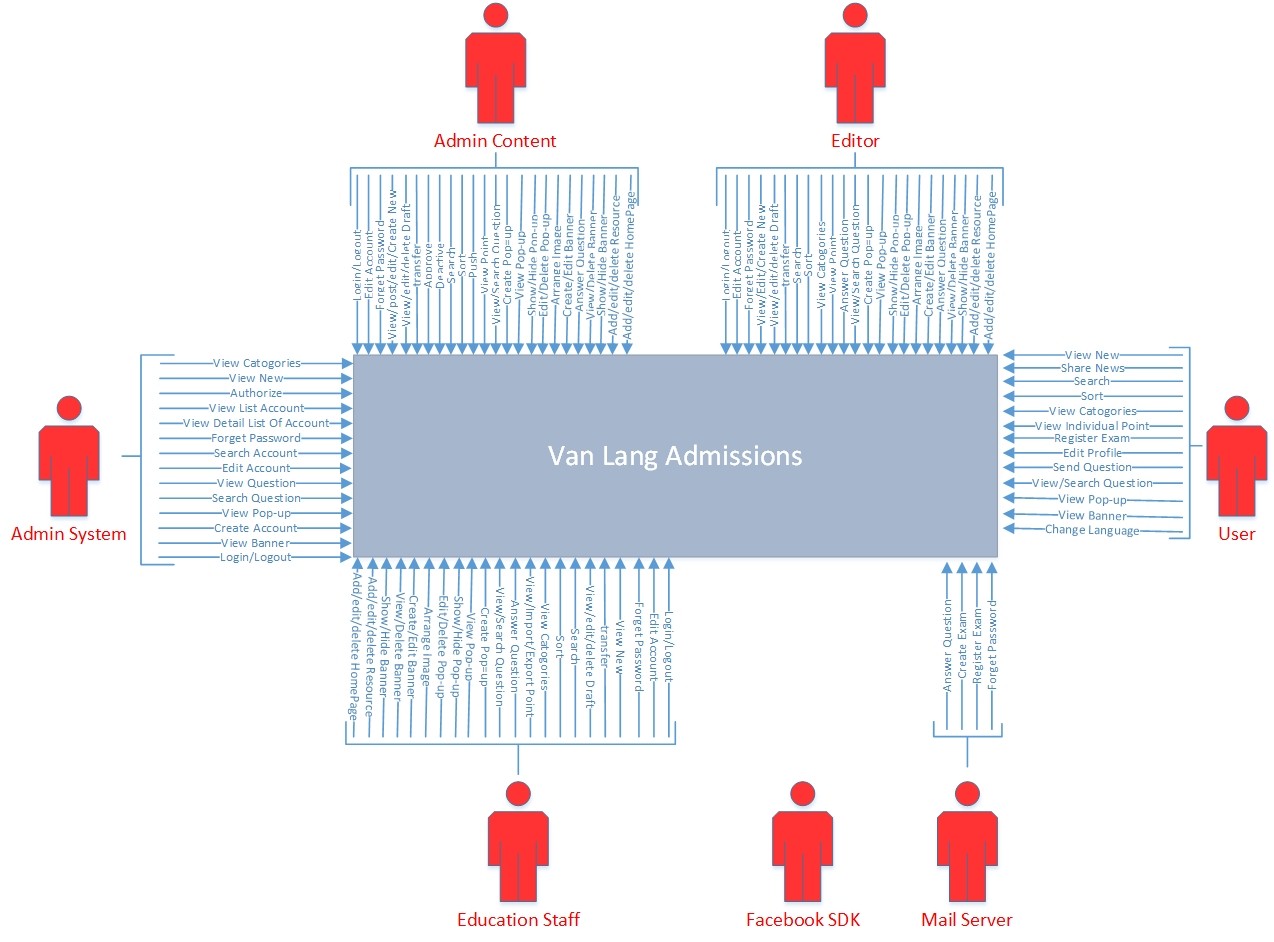
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# System Context



# Physical View

# Level 1



Figure 1: Physical View Level 1

# Level 2



Figure 2: Physical View Level 2

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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 3.2.100 | Select data from database |
| 4 | Search Engine | Linux | Operation system |
|  |  | Elastic search 1.7 | Search data |
| 5 | Image Server | Linux | Operation system |
|  |  |  |  |

# Rationale

|  |  |  |  |
| --- | --- | --- | --- |
| # | Quality Attribute | Decision | |
| 1 | Availability | Firewall will prevent malicious attacks to avoid servers down. | |
| 2 | Scalability | The system can be expanded server. | |
| 3 | Portability | We use Ionic 2 and Angular 2 to display data on web browsers and mobile browsers | |
| 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. |  |

# Dynamic View

# Level 1



Figure 3: Dynamic View Level 1

# Level 2



Figure 4: Dynamic View Level 2

# Rationale

# Static View

# Level 1



Figure 5: Static View Level 1

# Level 2



Figure 6: Static View Level 2 Manage Account



Figure 7: Static View Level 2 Manage Category



Figure 8: Static View Level 2 Manage News



Figure 9: Static View Level 2 Manage Examination



Figure 10: Static View Level 2 Manage Homepage



Figure 11: Static View Level 2 Manage Banners



Figure 12: Static View Level 2 Manage Pop-ups



Figure 13: Static View Level 2 FAQ



Figure 14: Static View Level 2 Change Language

# Rationale

# Mapping