Decision Analysis and Resolution Evaluation Report

For OMMCOM

Version 1.0

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**Revision History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Version | Date of Revision | Description of Change | Reason for Change | Affected Sections | Approved By |
| 1.0 | 19/04/2016 | Initial Document | Initial Document | Application level, DB level | Mr. Sarada Prasanna Behera |

**Approval History**

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| --- | --- | --- | --- |
| Version | Prepared By | Reviewed By/Date | Approved By/Date |
| 1.0 | Debasish Mishra | Mr. Sarada Prasanna Behera  19/04/2016 | Mr. Sarada Prasanna Behera (19/04/2016) |

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1. **Introduction**

This document describes the usage of DAR techniques to take a decision in the project, the alternatives identified, the solution agreed upon and its status. This can be used as reference later on in the project or by other projects. The objective includes;

* Selection of Video Player
* Selection of MVC framework
* Selection of Operating System

# Issues/ Problem Summary for Decision Analysis

* Availability of more than one popular open source tools, hence based on user’s reviews/popularity and stability comparison made among 2-3 tools only
* Operating system & installed environment support
* Browser compatibility: another issue includes compatibility with recent browsers like Mozilla firefox, google chrome and safari

## Primary stakeholders of decision outcome

1. Mr. Jajati Karan (MD, OMMCOM News)
2. Mr. Debasish Mishra (Technical Project Manager, Open Source)
3. Mr. Satyakam Misra (System Analyst)
4. Mr. Samadhan Mishra (System Architect)
5. Mrs. Mausumi Panda (QA)
6. Mr. Sarada Prasanna Behera

## The main triggers for initiating a formal decision making process

|  |  |
| --- | --- |
| Sl. No. | Triggers |
| 1 | Discussion with Client Mr. Jajati Karan (MD, OMMCOM News) |
| 2 | Comparison among tools |
| 3 | Approval from Technical team and client |
| 4 | Integration with application |

## Criteria for choosing an alternative and their relative ranks

|  |  |
| --- | --- |
| Criteria | Rank |
| 1. Cost | 5 |
| 1. Stability of the application | 4 |
| 1. User Reviews | 4 |
| 1. Time feasibility | 2 |
| 1. Performance | 4 |
| 1. Multi DB support | 3 |
| 1. Security | 5 |
| 1. NGINX support | 4 |

## List of alternatives, which were considered while arriving at the decision

Selection of Video Player

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Alternatives | Chosen/Not chosen | Decision analysis tool/techniques used |
| 1 | Video IO | Not chosen | Decision Matrix |
| 2 | JW Player | Chosen | Decision Matrix |

Selection of MVC framework:

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Alternatives | Chosen/Not chosen | Decision analysis tool/techniques used |
| 1 | CakePHP | Not chosen | Decision Matrix |
| 2 | Laravel | Chosen | Decision Matrix |

Selection of Operating System:

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Alternatives | Chosen/Not chosen | Decision analysis tool/techniques used |
| 1 | Windows | Not chosen | Decision Matrix |
| 2 | Linux | Chosen | Decision Matrix |

## Details of decision analysis work sheet

Selection of Video Player

\*\*Weightage (between 0-5), 0-poor, 1-3: average, 4-5: Good

|  |  |  |
| --- | --- | --- |
| Factors | Video IO | JW Player |
| Cost | 5 | 5 |
| Stability | 4 | 5 |
| User Reviews | 4 | 5 |
| Time Feasibility | 5 | 5 |
| Weighted Score | 18 | 20 |

Selection of MVC Framework

\*\*Weightage (between 0-5), 0-poor, 1-3: average, 4-5: Good

|  |  |  |
| --- | --- | --- |
| Factors | CakePHP2 | Laravel5 |
| Multi DB support | 4 | 5 |
| User Reviews | 3 | 5 |
| Performance | 3 | 5 |
| Security | 5 | 5 |
| Weighted Score | 15 | 20 |

Selection of Operating System

\*\*Weightage (between 0-5), 0-poor, 1-3: average, 4-5: Good

|  |  |  |
| --- | --- | --- |
| Factors | Windows 2012 Server | Ubuntu 14 |
| Security | 4 | 5 |
| NGINX support | 2 | 5 |
| Performance | 4 | 5 |
| Weighted Score | 10 | 15 |

* 1. Tools features and comparison details:

//Attach Excel

## Details of decisions arrived

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | Decision | Stakeholder/s | Responsible for Closure | Closure date |
| 1 | JW Player is chosen for the application | Debasish Mishra, Satyakam Misra | Debasish Mishra | 18/04/2016 |
| 2 | Laravel5 is chosen for MVC framework | Debasish Mishra, Satyakam Misra, | Debasish Mishra | 18/04/2016 |
| 3 | Ubuntu14 is chosen as Operating System | Debasish Mishra, Satyakam Misra, | Debasish Mishra | 18/04/2016 |