

# UZUMAKI ARTS ACADEMY

MEETS

# SOLUTION ARCHITECTURE

PRESENTED BY

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### Admissions

- Enrolment growth
- Global reach and recognition
- Tracking
- Structure
- Data security and privacy



### Operational Efficiency

- Leverages time
- Reduced paper work/ trail
- Better communication via web and internal portals
- Increased focus on creative collaboration for staff and students



### Student Records

- All information in one space
- Easily accessible
- Protected and secure

# CRM system

## For the Arts?

### What is solution architecture?

# Our Target Future



## User experience

- Increased mobile accessibility
- User friendly interface
- Creative collaboration: personalised profile



## Scalability

- Online auditions & archives
- Global auditions and reach
- Innovation and creativity
- Integration with external systems



## Cost effective

- Improved management of financial records and budgets
- Off load physical storage space to the cloud
- System construction and maintenance off loaded to the cloud provider



## Reliability

- Secure tuition Fee payments
- Secure applicant information
- Meet GDPR requirements

# Requirement Elicitation and Challenges

01

RE is a technique used to gather information. Defines:

- needs
- expectations
- constraints

of a project or system

02

A few drawback to using RE:

- the wrong technique can delay project progression
- Incomplete/inaccurate findings
- Not be able to meet Changing requirements
- Bias and assumptions

## What to avoid:

- **Brainstorming: unstructured information**
- **Surveys for detailed technical information: quantitative data collection**

(Iqbal, 2014)



# Questionnaire

PREFERRED RE & STRUCTURE



Current Systems

Integration

Data Privacy & Security

Combination of RE's in a structured format and easy to use and read

# Findings: Structure

Hi, Chicleusia. When you submit this form, the owner will see your name and email address.

Current Systems

1. Please list the limitations to the current admissions process encountered by the applicants ...

NOTE: Consider new and returning students.

There are potential problems with the current Uzumaki Arts Academy system, including manual administrative procedures, data accessibility restrictions, communication issues, and ineffective admissions. Effective operations and student involvement are hampered by these restrictions. For the academy to expand and be effective, it is imperative that these problems are resolved and that data security is maintained.

2. Is the current system focused on user experience or storage manageability? ... ◆

User Experience

Storage Manageability

Both

Open ended & close ended questions

- Increased depth of information acquired
- Saves time of stakeholder
- Restores focus.

Stakeholder demonstrated understanding and clear need of the systems limitations in Question (1).

# Findings: Data

Integration

4. Would you prefer a new system that is cloud-based or on-premises? ...

(Data privacy and security)

- cloud based: Accessible from one central point from anywhere in the world as long as the right credentials are presented.
- On premises: All documents are kept on the Arts Academy campus in a specific digital location.
- No preference
- Other

5. Is portable accessibility to the software essential? ...

i.e. Via tablet or mobile devices

- Yes
- No

6. Do you foresee the need for specific documentation or training materials? ...

- Most definitely
- Potentially

Cross - analysis between stakeholders:

- Tech team, admissions manager and students
- Increased accuracy approach
- Increased adaptability

Question (6) is an example of a poorly phrased question, response given may be in-fact true to the intended question it opens the door to confusion and poor communication.

Emphasises the requirement of a follow up meeting and  
(Gideon, 2012)

Intended Q6): Do you foresee the need for specific documentation and training materials for staff member in regards to the new system?

# Findings: Accessibility

Cross - analysis between:

- stakeholders - tech team, admissions manager and students
- increased accuracy approach

Global applications

Question (5): Within the questionnaire solution architect demonstrated the different view point of the RE to accommodate to end users.

5. Is portable accessibility to the software essential?

i.e. Via tablet or mobile devices

Yes  
 No

6. Do you foresee the need for specific documentation or training materials?

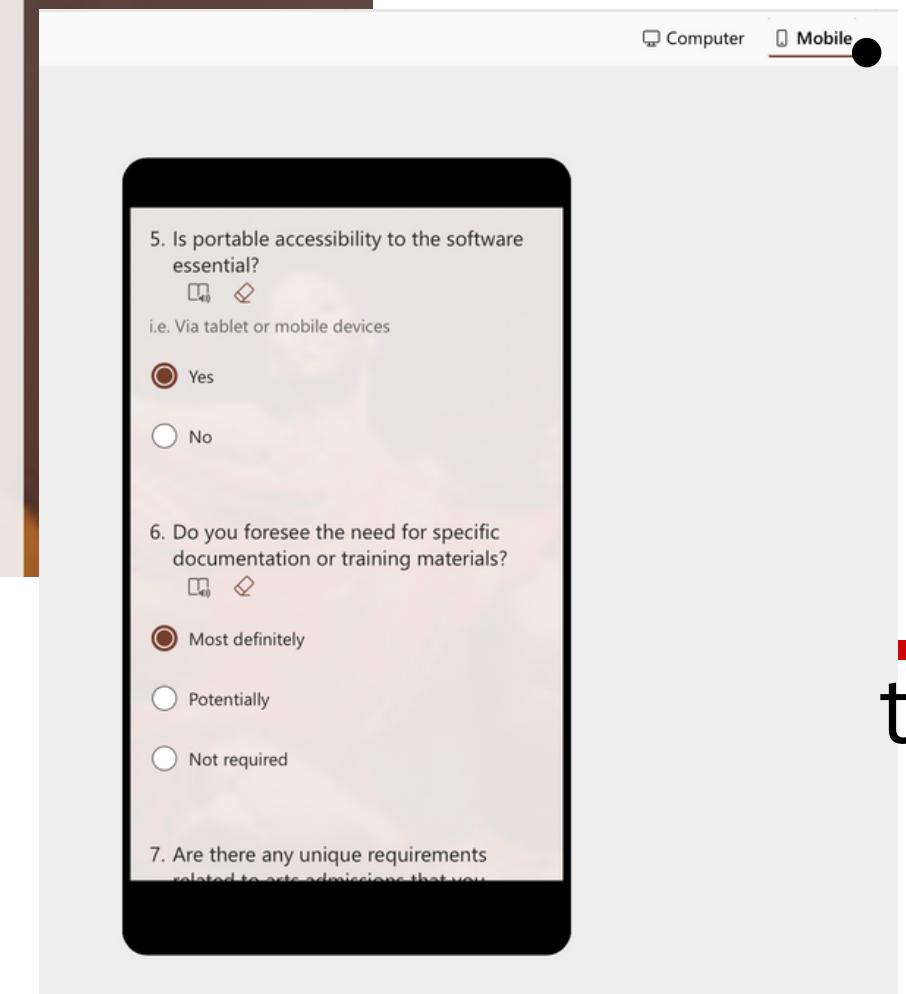
Most definitely  
 Potentially  
 Not required

7. Are there any unique requirements related to arts admissions that you would like the CRM system to accommodate?

Yes  
 No

Audition Scheduling, Creative Submission

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# Findings: GDPR

\* Required

## Data Privacy & Security

8. Does the current system require a username and password? Q40  
If no, how do you access students online portal? (Please select and specify in the others options.)

Yes  
 No  
 Other

9. How were you made aware of the current data protection policies for personal data of personnel within the academy? \* Q40  
(If unsure please state this.)

Enter your answer

10. What security measures (e.g., data protection, privacy laws) should be considered during the integration process? Q40

Enter your answer

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How to improve security:

- User authentication and access control
- Data encryption
- Data minimisation
- Data Deletion
- Incident response plans

# IN CONCLUSION

Collaborative communication and questionnaire techniques between stake holder and the solution architecture team outlined imperative system features to be included in the next stage of integrating Uzumaki academy with IT in todays market. Improving User experience, scalability, cost effectiveness and security.





# Q & A

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# References

Gideon, L. (2012). The Art of Question Phrasing. Handbook of Survey Methodology for the Social Sciences, pp.91-107.  
doi:[https://doi.org/10.1007/978-1-4614-3876-2\\_7](https://doi.org/10.1007/978-1-4614-3876-2_7).

Iqbal, T. (2014). Requirement Elicitation Technique: - a Review Paper. Requirement Elicitation Technique, 3(9). Under the Supervision of Mr. Mohammad Suaib M.TECH in Dept of CSE from INTEGRAL UNIVERSITY.

**Link to the questionnaire:**

[https://forms.office.com/Pages/ShareFormPage.aspx?id=qIS-f2u\\_LkCh5dns6P344HVygznNtxDmRXUjpjLnY1UOFJHUUFWTEg1RFJXQk5BUjBLTE5KMVU4Ry4u&sharetoken=ibrh9bsNaGRzHgOdxb06](https://forms.office.com/Pages/ShareFormPage.aspx?id=qIS-f2u_LkCh5dns6P344HVygznNtxDmRXUjpjLnY1UOFJHUUFWTEg1RFJXQk5BUjBLTE5KMVU4Ry4u&sharetoken=ibrh9bsNaGRzHgOdxb06)

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