MASTER OF TECHNOLOGY

PROJECT REPORT

HDB RESALE RECOMMENDER SYSTEM

TEAM MEMBERS

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**1. EXECUTIVE SUMMARY**

**2. BUSINESS PROBLEM DESCRIPTION**

* 1. **PROJECT OBJECTIVE**

**2.2 MARKET RESEARCH**

**2.3 SUCCESS MEASUREMENTS**

**3. KNOWLEDGE MODELING**

Knowledge modelling can be decomposed into three main stages, namely;

1. Knowledge identification
2. Knowledge specification
3. Knowledge refinement

Various activities are carried out during each of these stages and the crux of the model construction lies in stage (ii), Knowledge specification.

<http://ksi.cpsc.ucalgary.ca/KAW/KAW98/schreiber/>

**3.1 KNOWLEDGE IDENTIFICATION**

*Table 1: Knowledge source and acquisition technique*

|  |  |  |  |
| --- | --- | --- | --- |
| **S/N** | **Source of information** | **Insights from information source** | **Knowledge acquisition technique** |
| 1 | Data.gov.sg |  | Abstracted using Data.gov.sg API |
| 2 | PropertyGuru.com.sg |  | Web scrapping to obtain actual listings of HDB resale units available to the public |
| 3 | Generic population |  | Survey |

**3.2 KNOWLEDGE SPECIFICATION**

*Table 2: Survey responses on feature importances upon scouting for a resale flat*

**3.3 KNOWLEDGE REFINEMENT**

**4. SOLUTION**

**4.1. PROJECT IMPLEMENTATION**

To detail system development and testing approach.

**4.2 PROJECT PERFORMANCE & VALIDATION**

To prove project objectives are met.

**5. CONCLUSION & REFERENCES**

* 1. **PROJECT CONCLUSION**

Findings and recommendations.

1. **APPENDIX**

**6.1 PROJECT PROPOSAL**

**6.2 SKILLS OF MODULAR COURSES: MR, RS, CGS**

* **Web scrapping - CGS**
* **Prediction Tree Modelling - MR**
* **User-based Recommender system – RS**

**6.3 Installation and User Guide**

**6.4 Individual Project Reports**

**6.5 List of Abbreviations**

**6.6 References**