



Sri Lanka Institute of Information Technology
CDAP Project Proposal 2016
MigDB Project

Background

- Relational Databases
- Big Data
- Scalability
- NoSQL
- MongoDB

Literature



Query Translator

Convert MySQL Queries to MongoDB Syntax



Klaus.dk - Convert sql to mongodb online

Research Problem

- Mapping the relationships
- Within database tables into
- MongoDB collections

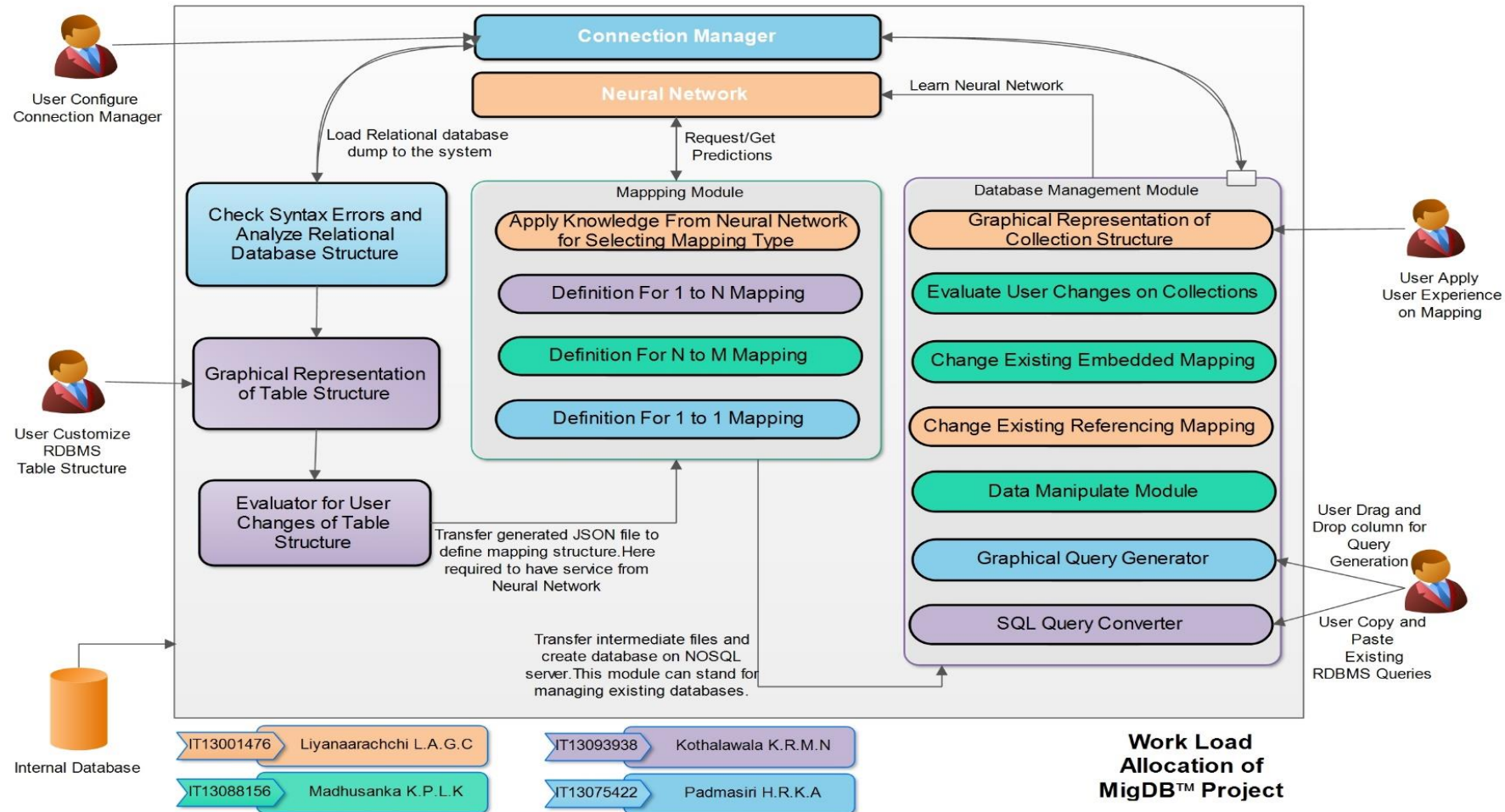
Solution

- Mapping 1:1 ,1:N and N:M relationships appropriately
- Find way to take decisions about way of modeling

Research Gap

Features	Research paper	Pelica Migrator	No-SQL Manager	Robo Mongo	UMongo	Admin mongo	Query Mongo	MigDB
Evaluate data changes to the schema								✓
Migration of table structures		✓	✓					✓
Migration of data		✓	✓					✓
Selection of most appropriate relationship mapping option from embedding or referencing	(Only embedding)							✓
User interactions to mapping								✓
Graphical management tool for MongoDB				✓	✓	✓		✓
Query conversion with joining							(only select queries)	✓
Graphical query generation								✓
Does not require JSON or MongoDB knowledge		✓						✓

Objectives



Marketing Value

- Advanced features
 - Minimal MongoDB/JSON knowledge
 - Proper mapping of relationships
 - Advanced Query conversion
 - User Friendly UI
 - Support All major platforms
 - High Accuracy

Marketing Value



Target Audience



MigDB 

Marketing Value



Marketing Value



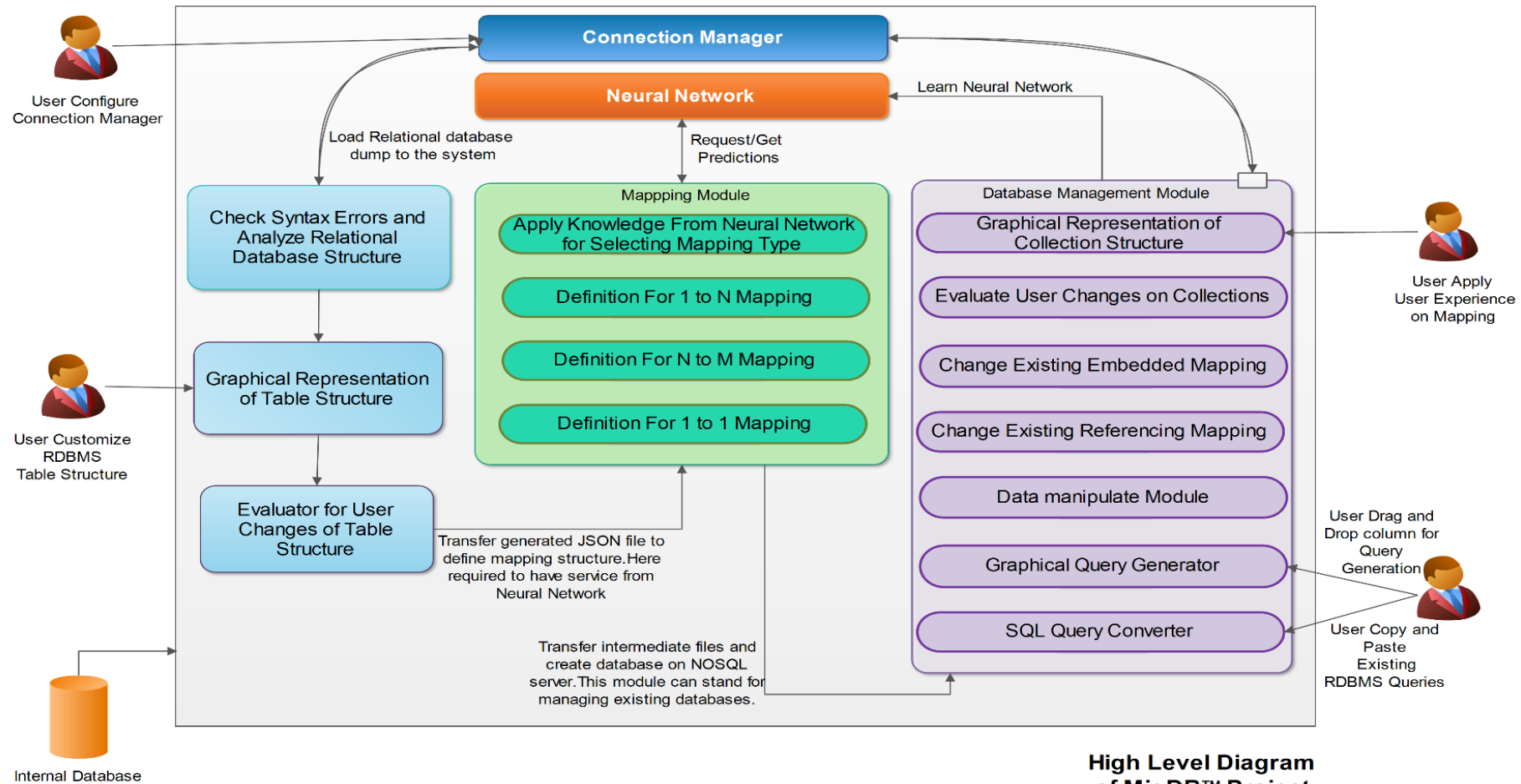
Marketing Value



Marketing Value

- Target Audience
 - Developers
 - Database Administrators
 - Organizations

Methodology



High Level Diagram of MigDB™ Project

Methodology

Technologies and Tools



Conclusion

- Background
- Research Problem
- Objectives
- Marketing Value
- Methodology

Thank You