SYSTEM ANALYSIS

Users

STATIC BON

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| SYSTEM | *WOODLAND\_RECORDS\_SYSTEM* | | Part: 1/1 |
| PURPOSE System that deals with adding and editing records in the system. | | INDEXING  author: Nishedh Karki  keywords: records | |
| Cluster | Description | | |
| *USERS* | *All the users and their types.* | | |
| *SERVICES* | *Includes the courses, modules, and other services.* | | |
| *GENERAL\_USES* | *General uses include diary management and announcement management.* | | |

**Cluster Charts**

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| CLUSTER | *User* | | Part: 1/1 |
| PURPOSE To handle all the users directly related activities. | | INDEXING  author: Nishedh Karki  keywords: teacher, student, user | |
| **Class/(Cluster)** | Description | | |
| *User* | *Information of all the users. Includes general information of person and their role in this system.* | | |
| *Teacher* | *Holds information of teacher related information. (Includes module and personal student)* | | |
| *Student* | *Holds information about student(course).* | | |
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| CLUSTER | *SERVICES* | | Part: 1/1 |
| PURPOSE To handle all the services in the system. | | INDEXING  author: Nishedh Karki  keywords: logs , services | |
| **Class/(Cluster)** | Description | | |
| *Course* | *Holds details of courses in the system.* | | |
| *Module* | *Holds details of modules and what course it belongs to.* | | |
| *PersonalTutortRequests* | *Holds the information of personal tutor requests made by student to a teacher.* | | |
| *Assignments* | *Holds assignments assigned for a module* | | |
| *Submissions* | *Holds submission data by student of assignment* | | |

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| CLUSTER | *GENERAL\_USES* | | Part: 1/1 |
| PURPOSE To handle all general uses in the system. | | INDEXING  author: Nishedh Karki  keywords: logs , services | |
| **Class/(Cluster)** | Description | | |
| *Log* | *Holds all the personal logs by all users.* | | |
| *Announcement* | *Includes all the announcements made by admin.* | | |
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Class Charts:

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| CLASS | *USER* | | Part: 1/1 |
| TYPE OF OBJECT  A user registered in the system. | | INDEXING  cluster:  USERS | |
| Queries | Name, dob, address, phone number, email, password, role, uID. | | |
| Commands | Add, update, delete, parseUser. | | |
| Constraints | uID is unique to every user. | | |

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| CLASS | *Teacher* | | Part: 1/1 |
| TYPE OF OBJECT  Teacher and admins in system. | | INDEXING  cluster:  USERS | |
| Inherits from | User | | |
| **Queries** | Module, salary, role. | | |
| Commands | Add personal Student, get personal student. | | |
| Constraints | Admin can’t have a module whereas if role is teacher then module, is a must. | | |

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| CLASS | *Students* | | Part: 1/1 |
| TYPE OF OBJECT  Students in the system. | | INDEXING  cluster:  USERS | |
| Inherits from | User | | |
| **Queries** | Course | | |
| Commands | Get personal teacher. | | |
| Constraints | Course is a must. | | |

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| CLASS | *Course* | | Part: 1/1 |
| TYPE OF OBJECT  A course being taught in the university. | | INDEXING  cluster:  SERVICES | |
| Queries | Name, duration, description | | |
| Commands | Add, delete, add Module. | | |
| Constraints | Name must be unique. | | |

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| CLASS | *Module* | | Part: 1/1 |
| TYPE OF OBJECT  A module in a Course. | | INDEXING  cluster:  SERVICES | |
| Queries | Name, credit, duration, description. | | |
| Commands | Add, update, delete. | | |
| Constraints |  | | |

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| CLASS | *PersonalTutorRequests* | | Part: 1/1 |
| TYPE OF OBJECT  A request for personal tutor. | | INDEXING  cluster:  SERVICES | |
| Queries | Student, teacher, module | | |
| Commands | Find, Add, update, delete, parse. | | |
| Constraints | Student cannot have multiple requests for same module. | | |

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| CLASS | *Assignment* | | Part: 1/1 |
| TYPE OF OBJECT  An assignment given by teacher in certain module. | | INDEXING  cluster:  SERVICES | |
| Queries | Title, date, due, extension, module | | |
| Commands | Find, Add, update, delete. | | |
| Constraints |  | | |

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| CLASS | *Submisson* | | Part: 1/1 |
| TYPE OF OBJECT  A submission from student on a assignment. | | INDEXING  cluster:  SERVICES | |
| Queries | Student, date, grade, teacher, filename, comment, assignment, feedback | | |
| Commands | Find, findforStudent, add, delete, grade. | | |
| Constraints | A new submission on same assignment overwrites the previous submission | | |

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| CLASS | *Log* | | Part: 1/1 |
| TYPE OF OBJECT  log is a personal log (diary) of a user. | | INDEXING  cluster:  SERVICES | |
| Queries | User, text. date | | |
| Commands | Find, add, edit, delete | | |
| Constraints | - | | |

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| CLASS | *Announcement* | | Part: 1/1 |
| TYPE OF OBJECT  Announcement made by admin for all user | | INDEXING  cluster:  SERVICES | |
| Queries | User, text, title, date | | |
| Commands | Find, add, delete | | |
| Constraints | - | | |

Architecture diagram