

# UML For Kapustin's Opera

Opus		
Name	Type	Description
OpusID:	Integer {PK, required}	Unique identifier for each Opus.
Opus Number:	Integer {required}	Official Opus number.
Title:	String {required}	Name of the work.
Type:	Enum (Orchestral, Big Band, Concerto, Soloist with ensemble (other), Chamber, Piano sonata, piano miniature set, short piano piece, four hands piano piece) {required}	Category of the work.
Year of Composition:	Integer {required}	The year when the work was composed.
Recording Exists:	Boolean {required}	Boolean indicating if a recording of the work is available.
Length:	Time {optional}	Duration of the work (if a recording exists).
YouTube Link:	String {optional}	Link to the recording (if available).
Number of Instruments:	Integer {optional}	Total count of instruments (if less than 7 and if a recording exists).
List of Instruments:	String {optional}	Names of instruments used in the work (if less than 7 and a recording exists).
Section Type:	Enum (Movements, Miniatures, None) {required}	Enum indicating if the work has movements, miniatures, or no sections.
Number of Sections:	Integer {optional}	The number of sections (if above 0)
List of Section Names:	String {optional}	Names of the movements or miniatures within the work (if applicable).
Referenced Work:	String {optional}	Name of the work referenced (if applicable).

User		
Name	Type	Description
UserID:	Integer {PK, required, auto-increment}	The ID given to reference the User.
Username:	String {required, unique}	The user's chosen username.
Password:	String {required, hashed}	The user's chosen, hashed password.
Email:	String {required, unique}	The user's chosen email.
DateRegistered:	Date {required}	The date in which the user is registered.
LastLogin:	Date {optional}	The date in which the user last logged in (if applicable)