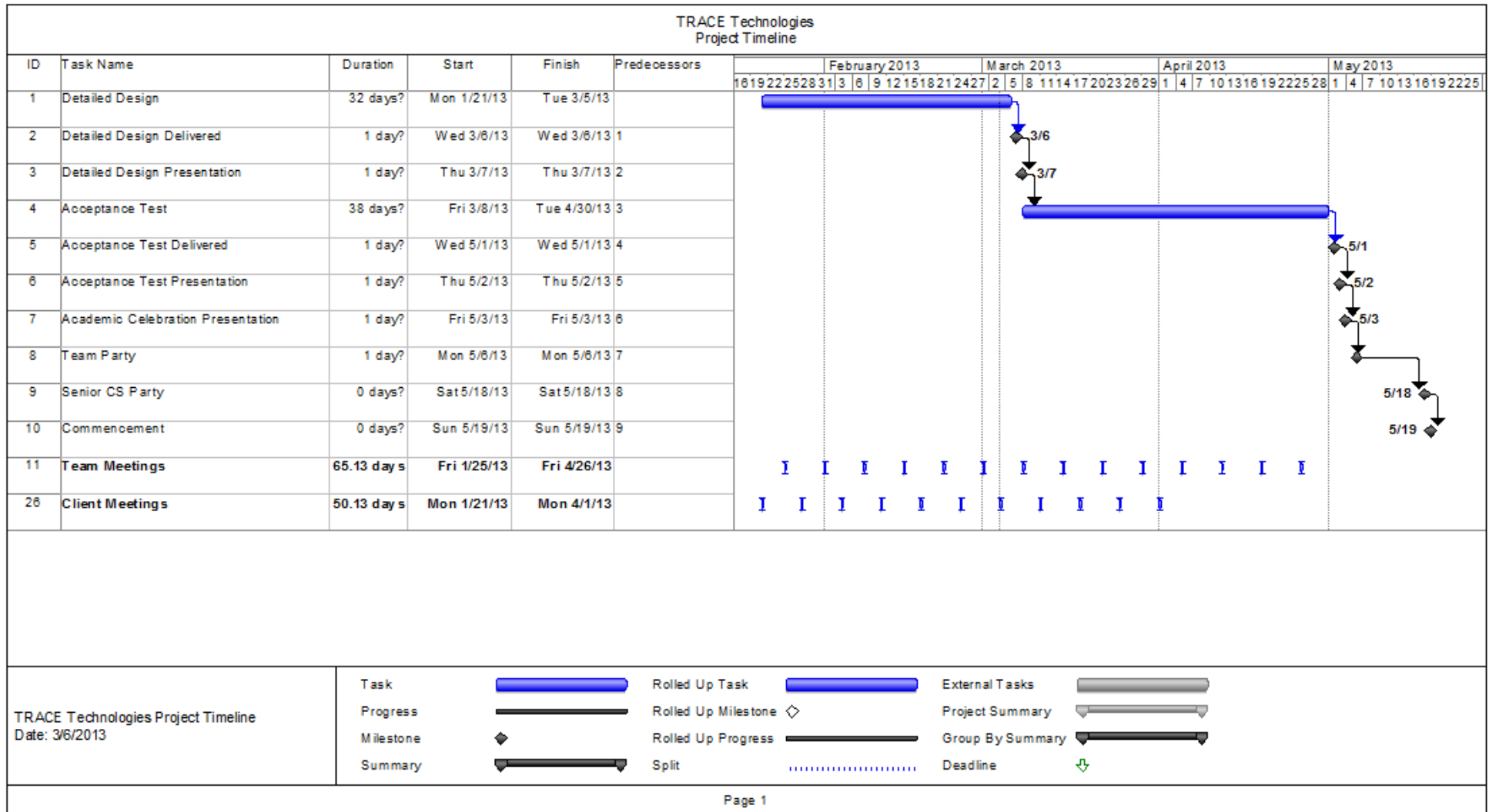




13. Appendix B: Project Timeline





14. Appendix C: Data Dictionary

The Data Dictionary provides a list of the data items used in the WORMS software as well as a description of each data item. The fields given in the table representation of the Data Dictionary are as follows:

| Columns | Description |
|--------------------------|---|
| Data Name | Name of the Data Entity |
| Can be NULL | If the data can be a NULL type or not in the database |
| Data Type | Database type used to store the data entity if it is stored in the database |
| Data Format | Size or other restrictions on the storage of a Data Entity |
| Example Acceptable Input | Examples of acceptable input to be stored in the Data Entity |
| Bad Input | Examples of invalid input for the Data Entity |
| Applicable to | Processes which the data are applicable to |
| Description | Textual description of the data |



| WORMS DATA DICTIONARY | | | | | | | |
|--------------------------------|-------------|---------------|----------------------------|----------------------------|--------------------------------|---------------------------|---|
| Data Name | Can be NULL | Data type | Data Form | Example Acceptable In | Bad Input | Applicable to | Description |
| address | No | VARCHAR(100) | 1 - 100 chars | 515 Loudon Road | empty input, >100 chars | Create account | The account owner's address |
| city | No | VARCHAR(100) | 1 - 100 chars | Loudonville | empty input, >100 chars | Create account | The account owner's city |
| countryIndex | No | INT | 0-195 chars | | | Create account | The index of the account owner's country |
| department | Yes | VARCHAR(100) | 1 - 100 chars | Computer Science | empty input, >100 chars | Create account | The account owner's school department |
| email | No | VARCHAR(100) | 3 - 100 chars | siena@siena.edu | sienasiena.edu, @ | Create account | The account owner's email address |
| eventLocation | No | VARCHAR(100) | 1 - 100 chars | Roger Bacon 202 | empty input, >100 chars | Register | Location of the scheduled event |
| eventTime | No | DATETIME | | Time during the conference | Time not during the conference | Register | Time of the scheduled event |
| eventTitle | No | VARCHAR(100) | 1 - 100 chars | Welcome speech | empty input, >100 chars | Register | Name of the scheduled event |
| firstName | No | VARCHAR(100) | 1 - 100 chars | Darren, Joe | empty input, Darren123 | Create account | The account owner's first name |
| isConferenceChair | No | BOOL | | True/False | N/A | Create account, Configure | Is the user a conference chair |
| isPresenting | No | BOOL | | True/False | N/A | Register, Submit | If the user has submitted a work that was accepted, will that user present the work |
| isProrammingContest TeamLeader | No | BOOL | | True/False | N/A | Register | Is the user registered as a programming contest team leader |
| isRegistered | No | BOOL | | True/False | N/A | Register | Is the user registered to attend the conference |
| lastName | No | VARCHAR(100) | 1 - 100 chars | Lim, Lederman | empty input, Lim123 | Create account | The account owner's last name |
| mealSelection | No | INT | 0 - (number of choices -1) | 1 | -1 | Register | An identifier indicating the meal selection |
| normalFee | No | DECIMAL(10,2) | > 0 | 30,2 | 0,-1 | Configure Conference, | Normal conference attendance fee |
| organization | Yes | VARCHAR(100) | 1 - 100 chars | Siena College | empty input | Create account | The account owner's organization or company |
| password | No | string | 8 - 32 chars | mypassword123 | pass, empty input | Create account, Login | User's password |
| passwordHash | No | BINARY(32) | 32 bytes | any 32 bytes | N/A | Create account, Login | The account's hashed password (SHA256) |
| personalTitle | No | VARCHAR(10) | 1 - 10 chars | Dr., Mr., Mrs. | longer than 10 chars, Dr1234& | Create account | The account owner's personal title |



| Data Name | Can be Null | Data type | Data Form | Example Acceptable Input | Bad Input | Applicable to | Description |
|--------------------------|-------------|---------------|--------------------------------------|--|---|--------------------------------|---|
| phoneNumber | Yes | VARCHAR(20) | 10 - 20 chars | 5183219999, 518-321-9999 | 321-9999, 1234567 | Create account | The account owner's phone number |
| position | No | VARCHAR(100) | 1 - 100 chars | Associate Professor | \$***---// | Create account | The account owner's academic title or professional position |
| programmingContestFee | No | DECIMAL(10,2) | > 0 | 50 | 0,-1 | Configure Conference, Register | Programming contest attendance fee |
| programmingContestTeamId | No | VARCHAR(100) | 1 - 100 chars | Team 1 | | Register | Name of program contest team |
| review | No | TEXT | Text data max 1 mb | Any ASCII text data < 1mb | | Review | Text data for a review written by a reviewer for a scholarly work |
| reviewerId | Yes | INT | 0 - (number of reviewers - 1) | 0, 1, 2, NULL | number greater than the number of reviewers | Review | The ID of the reviewer data associated with this user if the user is a reviewer |
| scholarlyWorkAccepted | No | BOOL | | True/False | N/A | Submit, Review | Whether or not a scholarly work has been accepted |
| scholarlyWorkDeadline | No | DATETIME | | 12/07/2012 | 12/07/2011 | Submit, Review | A specified deadline for submission |
| scholarlyWorkFile | N/A | File on disk | max 20 mb | | | Submit, Review | A file uploaded by a submitter |
| scholarlyWorkFileName | No | CHAR(64) | 64 hex digits | 7d666e82dc53680ff3cc050071a49a00286af4f6ee | mission.pdf, Submission | Submit, Review | Name of the file used to store a scholarly work. Automatically generated. |
| scholarlyWorkTitle | No | VARCHAR(50) | 1 - 50 chars | Some Title | empty input, >50 chars, contains nonprintable | Submit, Review | Title of a submitted work |
| scholarlyWorkTopicId | No | INT | 0 - (number of topics -1) | 0,1,2 | ##### | Submit, Review | An identifier indicating the topic of a work |
| scholarlyWorkTypeId | No | INT | 0 - 6 | 1,2,3,4 | -1,10 | Submit, Review | An identifier indicating the type of a work |
| stateTerritoryProvince | No | VARCHAR(100) | 1 - 100 chars | New York | empty input, > 100 chars | Create account | The account owner's state |
| studentFee | No | DECIMAL(10,2) | > 0 | 20,5 | 0,-1 | Configure Conference, Register | Student attendance fee |
| submissionChairId | Yes | INT | 0 - (number of submission chairs -1) | 0,1,2, NULL | number greater than the number of submission chairs | Create account, Review | The ID of the submission chair data for this user if the user is a submission chair |
| userId | No | INT | 0 - (number of users - 1) | | | All | Unique ID linked to a user. User ID 0 is the system admin. |
| zipCode | Yes | CHAR(5) | 5 chars | 12211 | empty, 1234, 1 | Create account | The account owner's zip code |
| workshopSelection | Yes | INT | 0 - (number of workshops - 1) | 0,1,2,NULL | number > number of workshops | Register | The ID of the workshop a user registering for the conference wishes to attend |
| workshopTitle | No | VARCHAR(100) | 1 - 100 chars | Computer Science Education | empty input, >100 chars | Register | The title of a workshop that attendees may register for. |