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| Name | Type | Protection | Description | Rational |
| m\_day | unsigned | private | A Variable to store a day of the month | I chose unsigned because we can’t have negative days. |
| m\_month | unsigned | private | A Variable to store a month of the year | I chose unsigned because we can’t have negative months. |
| m\_year | unsigned | private | A Variable to store a year. | I chose unsigned because we can’t have negative years. |
| SetDay(const unsigned) | bool | private | This sets the day and returns true if successful. The value must be between 1 and 31 inclusive.  If the month is Feb its checks for leap year and correct day, then it checks for 30 day months and finally sets it for 31 day months. | I chose to make it private so the date can be validated on input. No incorrect dates can be set. Its perhaps a little long but I thought this is better than separate functions. |
| SetMonth(const unsigned) | bool | private | This sets the month and returns true if successful. The value must be between 1 and 12 inclusive. | I chose to make it private so the date can be validated on input. No incorrect dates can be set. |
| SetYear(const unsigned) | bool | private | This sets the year and returns true if successful. The value must be between 1 and 9998 inclusive. | I chose to make it private so the date can be validated on input. No incorrect dates can be set. |
| Date() | constructor | public | Default constructor. Sets date to 1/1/1900 | Just a default constructor. |
| Clear() | void | public | Sets date to 1/1/1900 | Standard Clear |
| GetDay() const | unsigned | public | Retrieves the day variable by value. | Passed by value as it is only an unsigned int. |
| GetMonth() const | unsigned | public | Retrieves the month variable by value. | Passed by value as it is only an unsigned int. |
| GetDayYear() const | unsigned | public | Retrieves the year variable by value. | Passed by value as it is only an unsigned int. |
| SetDate(unsigned, unsigned, unsigned) | bool | public | This sets the year, then month then day and returns true if the date was set. The date must be a valid date otherwise the date is not set and it will return false. | I decided to use this function to set the entire date and make the setters private so only valid dates could be set. If you were able to set the day, month or year individually, false dates could be set making the class unreliable. |