



# Moodlelib API

- Provides many general purpose functions such as `get_string()`, `print_string()` and `get_string_manager()` to work with strings
- Defines several classes including `lang_string`, a special class to handle the generation of strings
- The API is housed in the ***`//lib/moodlelib.php`*** file.





# Moodlelib API (cont)

## Authentication/User specific

- `get_enabled_auth_plugins()` and `get_auth_plugin()` and other functions for user authentication
- `require_login()` to check if the user is logged in and related functions such as `require_logout()`, `require_course_login()`, and `require_admin()`
- `fullname()` to return the user's name in the correct format and other user data field functions such as `get_all_user_name_fields()`, as well as some user record functions such as `create_user_record()` to create a bare-bones user record, and `delete_user()`
- `set_user_preference()` and other user preference functions
- `userdate()` which returns a formatted string date based on the user
- `reset_password_and_mail()` and other password-related functions such as `check_password_policy()` and `generate_password()` and password policy constants `PASSWORD_LOWER`, `PASSWORD_UPPER`, `PASSWORD_DIGITS`;





# Moodlelib API (cont)

- **INPUT PARAMETERS** : `clean_param()` and related functions such as `required_param()` and `optional_param()` to manage input parameters and Parameter type constants such as `PARAM_TEXT`, `PARAM_BOOL`, `PARAM_ALPHANUM` and value-related constants such as `VALUE_REQUIRED`, `VALUE_OPTIONAL`, `NULL_NOT_ALLOWED`
- **CONFIGURED VARIABLES**: `set_config()` and `get_config()` to set and get configuration variables
- **CACHING**: `purge_caches()` and other caching functions
- **COURSE RELATED**: `delete_course()` and `remove_course_contents()` and other course-related functions;
  - Activity Module feature constants such as `FEATURE_GRADE_HAS_GRADE`, `FEATURE_PLAGIARISM`, `FEATURE_GROUPS`
  - Activity module types constants such as `MOD_ARCHETYPE_RESOURCE`, `MOD_ARCHETYPE_OTHER`, `MOD_ARCHETYPE_ASSIGNMENT`





# Moodlelib API (cont)

- **DATE/TIME:** `format_time()`, `dayofweek()`, `date_format_string()`, and `get_time_interval_string()` and time-related constants such as `HOURSECS`, `DAYSECS`, `DAYMINS`
- **FILE RELATED:** `clean_filename()` and other file-related functionality such as `get_file_storage()`, `get_directory_list()`, and `get_file_packer()`
- **EMAIL:** `email_to_user()` and `get_mailer()` and other email-related functions such as `generate_email_signoff()`
- **LISTS:** `get_list_of_charsets()`, `get_list_of_plugins()`, and `get_list_of_themes()`;
- **EMOTICONS:** `get_emoticon_manager()` – to get an instance of the `emoticon_manager` – also defined in the API
- **OTHER:** `fix_utf8()` – to ensure value is valid utf8, `is_number()` – to determine if a value is a number, and `format_float()` – to format numbers for display.

