:mod:`spwd` --- The shadow password database

This module provides access to the Unix shadow password database. It is available on various Unix versions.

You must have enough privileges to access the shadow password database (this usually means you have to be root).

Shadow password database entries are reported as a tuple-like object, whose attributes correspond to the members of the `spwd` structure (Attribute field below, see `<shadow.h>`):

Index	Attribute	Meaning
0	sp_namp	Login name
1	sp_pwdp	Encrypted password
2	sp_lstchg	Date of last change
3	sp_min	Minimal number of days between changes
4	sp_max	Maximum number of days between changes
5	sp_warn	Number of days before password expires to warn user about it
6	sp_inact	Number of days after password expires until account is disabled
7	sp_expire	Number of days since 1970-01-01 when account expires
8	sp_flag	Reserved

The sp_namp and sp_pwdp items are strings, all others are integers. :exc:`KeyError` is raised if the entry asked for cannot be found.

The following functions are defined:

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)spwd.rst`, line 66)

Unknown directive type "function".

```
.. function:: getspall()

   Return a list of all available shadow password database entries, in arbitrary
   order.
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)spwd.rst`, line 72)

Unknown directive type "seealso".

```
.. seealso::

   Module :mod:`grp`
      An interface to the group database, similar to this.

   Module :mod:`pwd`
      An interface to the normal password database, similar to this.
```