
clova-cek-sdk Documentation

Release 1.1.1

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Apr 29, 2019

References

1	Quick start	3
1.1	Core	4
1.2	Clova	14
1.3	Change log	18
2	Indices and tables	21
	Python Module Index	23

This is a python library to simplify the use of the Clova Extensions Kit (CEK). If you want to create your own service, you first need to create your own Extension. <https://clova-developers.line.me/>

CHAPTER 1

Quick start

1. Create a `cek.clova.Clova` instance.

```
import os
from cek import Clova

# application_id is used to verify requests.
application_id = os.environ.get("APPLICATION_ID")
# Set debug_mode=True if you are testing your extension. If True, this disables
# request verification
clova = Clova(application_id=application_id, default_language="ja", debug_mode=False)
```

2. Define request handlers for CEK (on LaunchRequest, IntentRequest, etc).

```
@clova.handle.launch
def launch_request_handler(clova_request):
    return clova.response("")

@clova.handle.default
def default_handler(clova_request):
    return clova.response("")
```

3. Setup a web API endpoint. Use `cek.clova.Clova.route()` to route requests.

```
from flask import Flask, request, jsonify

app = Flask(__name__)

@app.route('/app', methods=['POST'])
def my_service():
    resp = clova.route(request.data, request.headers)
    resp = jsonify(resp)
    # make sure we have correct Content-Type that CEK expects
    resp.headers['Content-Type'] = 'application/json; charset=UTF-8'
    return resp
```

4. Save as app.py and run app

```
FLASK_APP=app.py flask run
```

For a detailed example, see [clova-cek-sdk-python-sample](#) example extension. See also the API documentation to know how to use the SDK.

1.1 Core

Provides types and helpers to create and work with CEK responses easily. For a high-level interface upon the `cek.core` module, see documentation for `cek.clova` module.

—

1.1.1 Request

```
class cek.core.Request (request_dict)
```

Represents a CEK request.

Parameters `request_dict (dict)` – Dictionary representation of a request from CEK.

Variables

- `launch_key (str)` – Key to identify the ‘LaunchRequest’ request type.
- `intent_key (str)` – Key to identify the ‘IntentRequest’ request type.
- `event_key (str)` – Key to identify the ‘EventRequest’ request type.
- `session_ended_key (str)` – Key to identify the ‘SessionEndedRequest’ request type.
- `type (str)` – type of request. Can be IntentRequest, EventRequest, LaunchRequest, SessionEndedRequest.
- `context (Context)` – context of the current request from CEK.
- `application_id (str)` – application id which has been set in the Developer Center

```
classmethod create (request_dict)
```

Factory method for creating right Response depending on request type.

Parameters `request_dict (dict)` – Dictionary represents a request from CEK.

```
verify_application_id (application_id)
```

Verify application id

Raises `ApplicationIdMismatch` – if application id is incorrect.

1.1.2 ApplicationIdMismatch

```
class cek.core.ApplicationIdMismatch
```

Application Id does not match.

1.1.3 Request

```
class cek.core.LaunchRequest (request_dict)
```

Request received when a user launches the skill.

1.1.4 LaunchRequest

```
class cek.core.LaunchRequest (request_dict)
    Request received when a user launches the skill.
```

1.1.5 SessionEndedRequest

```
class cek.core.SessionEndedRequest (request_dict)
    Request received when a user has requested to stop using the skill.
```

1.1.6 IntentRequest

```
class cek.core.IntentRequest (request_dict)
    Request received when a user sends a requests to the skill based on the predefined interaction model.
```

Variables

- **name** (*str*) – name of the intent.
- **slots** (*dict*) – dictionary of slot name to value.

slot_value (*slot_name*)

Returns slot value or None if missing.

Parameters **slot_name** (*str*) – slot name

Returns slot value if exists, None otherwise.

Usage:

```
>>> @clova.handle.intent("TurnOn")
>>> def turn_on_handler(request):
>>>     request.slot_value('Light')
``
```

1.1.7 EventRequest

```
class cek.core.EventRequest (request_dict)
    Request received when an event on the user's device occurred.
```

Variables

- **id** (*str*) – is the dialog request id.
- **event** (*Event*) – contains the payload from the client.
- **timestamp** (*str*) – of when the client sends information to Clova (ISO 8601).

1.1.8 Context

```
class cek.core.Context (context_dict)
    Contains context information of the client.
```

Parameters **context_dict** (*dict*) – Dictionary represents the context from a CEK request.

Variables

- **audio_player** (`AudioPlayer`) – details of media content currently being played or played last. Can be None if empty.
- **device** (`Device`) – contains information of the client device.
- **user** (`User`) – default User of the device.

1.1.9 AudioPlayer

`class cek.core.AudioPlayer(audio_player_dict)`

Contains details of the media content currently being played or played last.

Parameters `audio_player_dict` (`dict`) – Dictionary represents the AudioPlayer from the CEK request.

Variables

- **offset** (`num`) – is the most recent playback position of the recently played media in milliseconds.
- **total** (`num`) – is the total duration of the recently played media in milliseconds.
- **activity** (`str`) – is indicating the current state of the player. Can be “IDLE”, “PLAYING”, “PAUSED” or “STOPPED”.
- **stream** (`dict`) – contains details of the currently played media. TODO: AudioStreamInfoObject specs are still WIP.

1.1.10 Device

`class cek.core.Device(device_dict)`

Contains details about user’s device.

Parameters `device_dict` (`dict`) – device as dictionary from the CEK request.

Variables `id` (`str`) – ID of the device.

1.1.11 Session

`class cek.core.Session(session_dict)`

Contains details about a user’s session.

Parameters `session_dict` (`dict`) – session as dictionary from the CEK request.

Variables

- **id** (`str`) – is the session id.
- **is_new** (`bool`) – distinguishes whether the request message is for a new or the existing session.
- **attributes** (`dict`) – used in a multi-turn dialogue and contains the information set in the previous response.sessionAttributes.
- **user** (`User`) – Current user connected to the device. Can be different from context.user.

1.1.12 User

```
class cek.core.User(user_dict)
    Contains user details.
```

Parameters **user_dict** (*dict*) – user as dictionary from the CEK request.

Variables

- **id** (*str*) – Clova ID of the user.
- **access_token** (*str*) – Access token of the user.

1.1.13 Event

```
class cek.core.Event(event_dict)
```

The object that stores the information sent by the client to Clova.

Variables

- **name** (*str*) – is the name of the event message sent by the client to Clova.
- **namespace** (*str*) – is the namespace of the event message.
- **payload** (*obj*) – is the payload or partial payload of the event message sent by the client to Clova.

1.1.14 Response

```
class cek.core.Response
```

The object containing the response information of the extension.

Variables

- **session_attributes** (*dict*) – Session attributes in a dictionary format. Will be send back in the next request.
- **reprompt** (*dict*) – reprompt value, can be SimpleSpeech, SpeechSet or SpeechList.

1.1.15 SpeechBuilder

```
class cek.core.SpeechBuilder(default_language='ja')
```

Helper class to build speech objects that can be part of CEK response.

Parameters **default_language** (*str*) – Set default language for all messages. Can be ja, ko or en.

Raises **ValueError** – if unsupported language is specified.

Usage: All the examples below assume the following helper is defined in advance.

```
>>> from cek import SpeechBuilder
>>> from pprint import pprint
>>> speech_builder = SpeechBuilder(default_language="ja")
```

Building a plain text object:

```
>>> speech_builder.plain_text("")  
{'type': 'PlainText', 'lang': 'ja', 'value': ''}
```

plain_text (*message*, *language=None*)

Build a PlainText object

Parameters

- **message** (*str*) – String Message which clova should speak out
- **language** (*str*) – Language code of the message

Returns Dictionary with the format of a SpeechInfo with type PlainText

Return type *dict*

Raises **ValueError** – if unsupported language is specified.

Usage:

```
>>> speech_builder.plain_text("")  
{'type': 'PlainText', 'lang': 'ja', 'value': ''}
```

simple_speech (*speech_value*)

Build a SimpleSpeech object

Parameters **speech_value** (*dict*) – speech_value can be plain_text or url SpeechInfo

Returns Dictionary in the format of a SimpleSpeech

Return type *dict*

Usage:

```
>>> text = builder.plain_text("")  
>>> pprint(speech_builder.simple_speech(text))  
{'type': 'SimpleSpeech',  
 'values': {'lang': 'ja', 'type': 'PlainText', 'value': ''}}
```

speech_list (*speech_values*)

Build a SpeechList object

Parameters **speech_values** (*list*) – List which can consist of plain_text SpeechInfo or url SpeechInfo

Returns Dictionary in the format of a SpeechList

Return type *dict*

Usage:

```
>>> from pprint import pprint  
>>> text = speech_builder.plain_text("")  
>>> url = speech_builder.url("https://dummy.mp3")  
>>> speech_list = speech_builder.speech_list([text, url])  
>>> pprint(speech_list)  
{'type': 'SpeechList',  
 'values': [{'lang': 'ja', 'type': 'PlainText', 'value': ''},  
 {'lang': '', 'type': 'URL', 'value': 'https://dummy.mp3'}]}
```

speech_set (*brief, verbose*)

Build a SpeechSet object

Parameters

- **brief** (*dict*) – A Dictionary of a plain_text SpeechInfo or url SpeechInfo
- **verbose** (*dict*) – A Dictionary of a SpeechList or SimpleSpeech

Returns Dictionary in the format of a SpeechSet**Return type** *dict***url** (*url*)

Build an URL object

Parameters **url** (*str*) – URL of the audio file which should be played by clova**Returns** Dictionary with the format of a SpeechInfo with type URL**Return type** *dict***Usage:**

```
>>> speech_builder.url("https://dummy.mp3")
{'type': 'URL', 'lang': '', 'value': 'https://dummy.mp3'}
```

1.1.16 ResponseBuilder

class `cek.core.ResponseBuilder` (*default_language='ja'*)

Helper class to build responses for CEK

Parameters **default_language** (*str*) – Set default language for all messages. Can be ja, ko or en.**Raises** `ValueError` – if unsupported language is specified.**Usage:** All the examples below assume the following helper is defined in advance.

```
>>> from cek import SpeechBuilder, ResponseBuilder
>>> from pprint import pprint
>>> speech_builder = SpeechBuilder(default_language="ja")
>>> response_builder = ResponseBuilder(default_language="ja")
```

Building a SimpleSpeech response:

```
>>> resp = response_builder.simple_speech_text("")
>>> pprint(resp)
{'response': {'card': {}, 'directives': [], 'outputSpeech': {'type': 'SimpleSpeech', 'values': {'lang': 'ja', 'type': 'PlainText', 'value': ''}}, 'shouldEndSession': False}, 'sessionAttributes': {}, 'version': '1.0'}
```

add_reprompt (*response, speech*)

Add a repromt to your response. It is recommended to use a SimpleSpeech to keep the repromt short

Parameters

- **response** (*dict-like*) – Response Dictionary to which the reprompt should be added
- **speech** (*dict*) – Speech can be a Dictionary of Simple Speech, SpeechList or SpeechSet

Returns Response with added Speech reprompt

Return type dict-like

simple_speech (*speech_value*, *end_session=False*)

Build a SimpleSpeech response

Parameters

- **speech_value** (*dict*) – Value which can consist of plain_text SpeechInfo or url SpeechInfo
- **end_session** (*bool*) – Whether Clova should continue to listen or end the session

Returns Response that wraps a Dictionary in the format of a response for a SimpleSpeech

Return type *cek.core.Response*

Usage:

```
>>> text = speech_builder.plain_text(" ")
>>> resp = response_builder.simple_speech(text)
>>> pprint(resp)
{'response': {'card': {},
   'directives': [],
   'outputSpeech': {'type': 'SimpleSpeech',
      'values': {'lang': 'ja',
         'type': 'PlainText',
         'value': ''}},
   'shouldEndSession': False},
 'sessionAttributes': {},
 'version': '1.0'}
```

simple_speech_text (*message*, *language=None*, *end_session=False*)

Build SimpleSpeech response with plain_text value

Parameters

- **message** (*str*) – String Request which clova should speak out
- **language** (*str*) – Language code of the message
- **end_session** (*bool*) – Whether Clova should continue to listen or end the session

Returns Response that wraps a Dictionary in the format of a response for a SimpleSpeech

Return type *cek.core.Response*

Raises **ValueError** – if unsupported language is specified.

Usage:

```
>>> resp = response_builder.simple_speech_text(" ")
>>> pprint(resp)
{'response': {'card': {},
   'directives': []}}
```

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```
'outputSpeech': {'type': 'SimpleSpeech',
                  'values': {'lang': 'ja',
                             'type': 'PlainText',
                             'value': ''}},
                 'shouldEndSession': False},
'sessionAttributes': {},
'version': '1.0'}
```

speech_list (*speech_values*, *end_session=False*)

Build a SpeechList response

Parameters

- **speech_values** (*list*) – List which can consist of plain_text SpeechInfo or url SpeechInfo
- **end_session** (*bool*) – Whether Clova should continue to listen or end the session

Returns Response that wraps a Dictionary in the format of a response for a SpeechList**Return type** *cek.core.Response***Usage:**

```
>>> text = speech_builder.plain_text("")
>>> url = speech_builder.url("https://dummy.mp3")
>>> resp = response_builder.speech_list([text, url])
>>> pprint(resp)
{'response': {'card': {},
              'directives': [],
              'outputSpeech': {'type': 'SpeechList',
                              'values': [{'lang': 'ja',
                                         'type': 'PlainText',
                                         'value': ''},
                                         {'lang': '',
                                         'type': 'URL',
                                         'value': 'https://dummy.mp3'}]}}

→
{'shouldEndSession': False},
'sessionAttributes': {},
'version': '1.0'}
```

speech_set (*brief*, *verbose*, *end_session=False*)

Build a SpeechSet response

Parameters

- **brief** (*dict*) – A Dictionary of a plain_text SpeechInfo or url SpeechInfo
- **verbose** (*dict*) – A Dictionary of a SpeechList or SimpleSpeech
- **end_session** (*bool*) – Whether Clova should continue to listen or end the session

Returns Response that wraps a Dictionary in the format of a response for a SpeechSet**Return type** *cek.core.Response***speech_url** (*message*, *url*, *language=None*, *end_session=False*)

Build a SpeechList response with a message and an URL

Parameters

- **message** (*str*) – String Message which clova should speak out
- **url** (*str*) – String URL of the audio file which should be played by clova
- **language** (*str*) – Language code of the message
- **end_session** (*bool*) – Whether Clova should continue to listen or end the session

Returns Response that wraps a Dictionary in the format of a response for a SpeechList

Return type *cek.core.Response*

Raises **ValueError** – if unsupported language is specified.

Usage:

```
>>> resp = response_builder.speech_url("", "https://dummy.mp3")
>>> pprint(resp)
{'response': {'card': {},
  'directives': [],
  'outputSpeech': {'type': 'SpeechList',
    'values': [{'lang': 'ja',
      'type': 'PlainText',
      'value': ''},
     {'lang': '',
      'type': 'URL',
      'value': 'https://dummy.mp3'}]}},
 'shouldEndSession': False},
 'sessionAttributes': {},
 'version': '1.0'}
```

1.1.17 RequestHandler

class *cek.core.RequestHandler* (*application_id*, *debug_mode=False*)

Helper class to handle requests from CEK.

Parameters

- **application_id** (*str*) – Application ID that was used to register this Extension f.e.
- **debug_mode** (*bool*) – When set to True, application_id and request verification are ignored.

Usage: All the examples below assume the following helpers are defined in advance.

```
>>> from cek import RequestHandler, ResponseBuilder
>>> clova_handler = RequestHandler(application_id="", debug_mode=True)
>>> builder = ResponseBuilder(default_language="ja", debug_mode=False)
```

Defining handlers can be done by decorators:

```
>>> @clova_handler.launch
... def launch_request_handler(clova_request):
...     return builder.simple_speech_text("")
```

```
>>> @clova_handler.default
... def default_handler(clova_request):
...     return builder.simple_speech_text("")
```

If you have defined request handlers, then setup a web API endpoint as follows:

```
>>> from flask import Flask, request, jsonify
>>> app = Flask(__name__)
>>> @app.route('/app', methods=['POST'])
... def my_service():
...     resp = clova_handler.route_request(request.data, request.headers)
...     resp = jsonify(resp)
...     resp.headers['Content-Type'] = 'application/json; charset=UTF-8'
...     return resp
```

default(func)

Default handler

Parameters `func` – Function

Usage:

```
>>> @clova_handler.default
... def default_handler(clova_request):
...     return builder.simple_speech_text("")
```

end(func)

End handler called on SessionEndedRequest.

Parameters `func` – Function

Usage:

```
>>> @clova_handler.end
... def end_handler(clova_request):
...     # Session ended, this handler can be used to clean up
...     return
```

event(func)

Event handler called on EventRequest.

Parameters `func` – Function

Usage:

```
>>> @clova_handler.event
... def event_request_handler(clova_request):
...     ...
```

intent(intent)

Intent handler called on IntentRequest.

Parameters `intent (str)` – intent name

Usage:

```
>>> @clova_handler.intent("Clova.YesIntent")
... def intent_handler(clova_request):
...     return builder.simple_speech_text("")
```

launch(func)

Launch handler called on LaunchRequest.

Parameters `func` – Function

Usage:

```
>>> @clova_handler.launch
... def launch_request_handler(clova_request):
...     return builder.simple_speech_text("")
```

route_request(request_body, request_header_dict)

Route request from CEK.

Parameters

- `request_body (bytes)` – Binary Request body from CEK
- `request_header_dict (dict)` – Request Header as dictionary

Returns Returns body for CEK response

Return type `cek.core.Response`

Raises

- `cryptography.exceptions.InvalidSignature` – (non-debug mode only) if request verification failed.
- `cek.ApplicationIdMismatch` – (non-debug mode only) if application id is incorrect.

Usage:

```
>>> from flask import Flask, request, Response
>>> app = Flask(__name__)
>>> @app.route('/app', methods=['POST'])
... def my_service():
...     resp = clova_handler.route_request(request.data, request.headers)
...     resp = jsonify(resp)
...     resp.headers['Content-Type'] = 'application/json; charset=UTF-8'
...     return resp
```

1.2 Clova

An abstracted layer on top of the `cek.core` module.

—

1.2.1 URL

```
class cek.clova.URL(url)
```

Parameters `url` – As str which points directly to a source which should be played by Clover

1.2.2 Message

```
class cek.clova.Message(message, language=None)
```

Parameters

- `message` (`str`) – Message of type str which Clova should speak out
- `language` (`str`) – Language code of the message. Can be ja, ko or en.

1.2.3 MessageSet

```
class cek.clova.MessageSet(brief, verbose)
```

Parameters

- `brief` – Can be of type `str`, `Message` or `URL`
- `verbose` – Can be of type `str`, `Message` or `URL` or a `list` containing any of those three types

1.2.4 Clova

```
class cek.clova.Clova(application_id, default_language='ja', debug_mode=False)
```

Clova provides the easiest way to create your extension.

Parameters

- `application_id` (`str`) – Set registered application id to verify all incoming requests
- `default_language` (`str`) – Set default language for all messages. Can be ja, ko or en.
- `debug_mode` (`bool`) – Use only for development. If set to True, request and applicationId verification are turned off

Raises `ValueError` – if unsupported language is specified.

Variables `handle` (`RequestHandler`) – Helper to handle requests from CEK. Request handlers must be defined using the handler.

Usage: Create `Clova` instance:

```
>>> from cek import Clova
>>> clova = Clova(application_id='', default_language='jp', debug_mode=True)
```

Define request handlers using `(Clova.handle)`. Response can be created using `Clova.response()`.

```
>>> @clova.handle.launch
... def launch_request_handler(clova_request):
...     return clova.response("")
```

```
>>> @clova.handle.default
... def default_handler(clova_request):
...     return clova.response("")
```

Plug into your web application using `Clova.route()`:

```
>>> from flask import Flask, request, jsonify
>>> app = Flask(__name__)
>>> @app.route('/app', methods=['POST'])
... def my_service():
...     resp = clova.route(request.data, request.headers)
...     resp = jsonify(resp)
...     resp.headers['Content-Type'] = 'application/json; charset=UTF-8'
...     return resp
```

See docs for `Clova.route()` and `Clova.response()` for detailed usages.

response (*message, reprompt=None, end_session=False*)

Create a Response that should be sent back to CEK

Parameters

- **message** – Can be of type `str`, `Message` or `URL` or a `list`, `MessageSet` containing any of these types
- **reprompt** – Can be of type `str`, `Message` or `URL` or a `list`, `MessageSet` containing any of these types
- **end_session** (`bool`) – Whether Clova should continue to listen or end the session

Returns Response containing passed message

Return type `cek.core.Response`

Raises `ValueError` – if unsupported language is specified.

Usage:

```
>>> import cek
>>> from cek import Clova
>>> from pprint import pprint
>>> clova = Clova(application_id="", default_language="ja", debug_
↪mode=True)
```

Simplest case:

```
>>> resp = clova.response("")
>>> pprint(resp)
{'response': {'card': {}, 'directives': [], 'outputSpeech': {'type': 'SimpleSpeech', 'values': {'lang': 'ja', 'type': 'PlainText', 'value': ''}}, 'shouldEndSession': False}, 'sessionAttributes': {}, 'version': '1.0'}
```

With explicit language:

```
>>> resp = clova.response(cek.Message("English", language="en"))
>>> pprint(resp)
{'response': {'card': {},
   'directives': [],
   'outputSpeech': {'type': 'SimpleSpeech',
      'values': {'lang': 'en',
         'type': 'PlainText',
         'value': 'English'}},
   'shouldEndSession': False},
 'sessionAttributes': {},
 'version': '1.0'}
```

URL:

```
>>> resp = clova.response(cek.URL("https://dummy.mp3"))
>>> pprint(resp)
{'response': {'card': {},
   'directives': [],
   'outputSpeech': {'type': 'SimpleSpeech',
      'values': {'lang': '',
         'type': 'URL',
         'value': 'https://dummy.mp3'}},
   'shouldEndSession': False},
 'sessionAttributes': {},
 'version': '1.0'}
```

List:

```
>>> resp = clova.response(["", cek.URL("https://dummy.mp3")])
>>> pprint(resp)
{'response': {'card': {},
   'directives': [],
   'outputSpeech': {'type': 'SpeechList',
      'values': [{"lang": "ja",
         'type': 'PlainText',
         'value': ''},
        {"lang": '',
         'type': 'URL',
         'value': 'https://dummy.mp3'}]}},
   'shouldEndSession': False},
 'sessionAttributes': {},
 'version': '1.0'}
```

With reprompt message:

```
>>> resp = clova.response("", reprompt="")
>>> pprint(resp)
{'response': {'card': {},
   'directives': [],
   'outputSpeech': {'type': 'SimpleSpeech',
      'values': {'lang': 'ja',
         'type': 'PlainText',
         'value': ''}},
   'reprompt': {'outputSpeech': {'type': 'SimpleSpeech',
      'values': {'lang': 'ja',
         'type': 'PlainText'}}}}
```

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```
'shouldEndSession': False},  
'sessionAttributes': {},  
'version': '1.0'}
```

route (*body, header*)

Route request from CEK to handlers

Depending on the request type (intent, launch, etc), the function routes the request to the proper handler defined by the user and returns the response as a dictionary. Request verification is done per request before routing.

The method is an alias to `cek.core.RequestHandler.route_request()`.

Parameters

- **body** (*bytes*) – Binary Request body from CEK
- **header** (*dict*) – Request Header as a dictionary

Returns Returns body for CEK response**Return type** `cek.core.Response`**Raises**

- `cryptography.exceptions.InvalidSignature` – (non-debug mode only) if request verification failed.
- `RuntimeError` – (non-debug mode only) if application id is incorrect.

Usage:

```
>>> from cek import Clova  
>>> clova = Clova(application_id="", default_language="ja", debug_=  
    ↪mode=True)  
>>> from flask import Flask, request, jsonify  
>>> app = Flask(__name__)  
>>> @app.route('/app', methods=['POST'])  
... def my_service():  
...     resp = clova.route(request.data, request.headers)  
...     resp = jsonify(resp)  
...     resp.headers['Content-Type'] = 'application/json; charset=UTF-8'  
...     return resp
```

1.3 Change log

1.3.1 1.0.0 <2018-08-03>

- Initial release

1.3.2 1.0.1 <2018-09-19>

- BugFix: Simple response does not end session

1.3.3 1.1.0 <2019-04-11>

This update contains some refactoring of the Request class into subclasses of different Request types to better reflect the request definitions.

- Added and refactored requests into *LaunchRequest*, *SessionEndedRequest*, *IntentRequest* and *EventRequest*
- Refactored core module into *models* and *handler*
- *verify_application_id* can throw *ApplicationIdMismatch*
- Renamed *EndRequest* -> *SessionEndedRequest*
- Added *Event*, *User*, *AudioPlayer*, *Context*, *Device*, and *Session* Model

Breaking API changes are:

- `request.request_type` -> `request.type`
- `request.session_id` -> `request.session.id`
- `request.session_attributes` -> `request.session.attributes`
- `request.access_token` -> `request.session.user.access_token`
- `request.intent_name` -> `intent_request.name`

CHAPTER 2

Indices and tables

- genindex
- modindex
- search

Python Module Index

C

`cek`, 1
`cek.clova`, 14
`cek.core`, 4

Index

A

add_reprompt () (*cek.core.ResponseBuilder method*), 9
ApplicationIdMismatch (*class in cek.core*), 4
AudioPlayer (*class in cek.core*), 6

C

cek (*module*), 1
cek.clova (*module*), 14
cek.core (*module*), 4
Clova (*class in cek.clova*), 15
Context (*class in cek.core*), 5
create () (*cek.core.Request class method*), 4

D

default () (*cek.core.RequestHandler method*), 13
Device (*class in cek.core*), 6

E

end () (*cek.core.RequestHandler method*), 13
Event (*class in cek.core*), 7
event () (*cek.core.RequestHandler method*), 13
EventRequest (*class in cek.core*), 5

I

intent () (*cek.core.RequestHandler method*), 13
IntentRequest (*class in cek.core*), 5

L

launch () (*cek.core.RequestHandler method*), 14
LaunchRequest (*class in cek.core*), 4, 5

M

Message (*class in cek.clova*), 15
MessageSet (*class in cek.clova*), 15

P

plain_text () (*cek.core.SpeechBuilder method*), 8

R

Request (*class in cek.core*), 4
RequestHandler (*class in cek.core*), 12
Response (*class in cek.core*), 7
response () (*cek.clova.Clova method*), 16
ResponseBuilder (*class in cek.core*), 9
route () (*cek.clova.Clova method*), 18
route_request () (*cek.core.RequestHandler method*), 14

S

Session (*class in cek.core*), 6
SessionEndedRequest (*class in cek.core*), 5
simple_speech () (*cek.core.ResponseBuilder method*), 10
simple_speech () (*cek.core.SpeechBuilder method*), 8
simple_speech_text () (*cek.core.ResponseBuilder method*), 10
slot_value () (*cek.core.IntentRequest method*), 5
speech_list () (*cek.core.ResponseBuilder method*), 11
speech_list () (*cek.core.SpeechBuilder method*), 8
speech_set () (*cek.core.ResponseBuilder method*), 11
speech_set () (*cek.core.SpeechBuilder method*), 8
speech_url () (*cek.core.ResponseBuilder method*), 11
SpeechBuilder (*class in cek.core*), 7

U

URL (*class in cek.clova*), 15
url () (*cek.core.SpeechBuilder method*), 9
User (*class in cek.core*), 7

V

verify_application_id () (*cek.core.Request method*), 4