TIMELINE: 0 TO 24

BOOPY
CREATE A MOMENT IN TIME.

Step Goals

10k steps/
15k step
20k steps/
10463
steps of
15000

turquoise
FOR

New Me
from @Wo
23m ago
@exiva When
we meet u

Hyon S   1h
@exiva HOW LONG
WAS I OUT? IS N...
Wolfidy
@exiva When
should we meet ...
Sean B   4h
@exiva
thanksgiving bre...

OTHER PEBBLE APPS I'M WORKING ON...

venmo

WHAT IS TIMELINE?

WHAT IS TIMELINE?

▸ 2 days in the Past* and 2 days in the Future

▸ Available on every Pebble with Pebble OS 3+

▸ Notifications from Web services

▸ Calendar
Alarms
Sports Scores via ESPN
Weather
Health Activities Summary

*Past is being removed in Pebble OS 4 later this year

One click to what matters

PAST
PRESENT
FUTURE
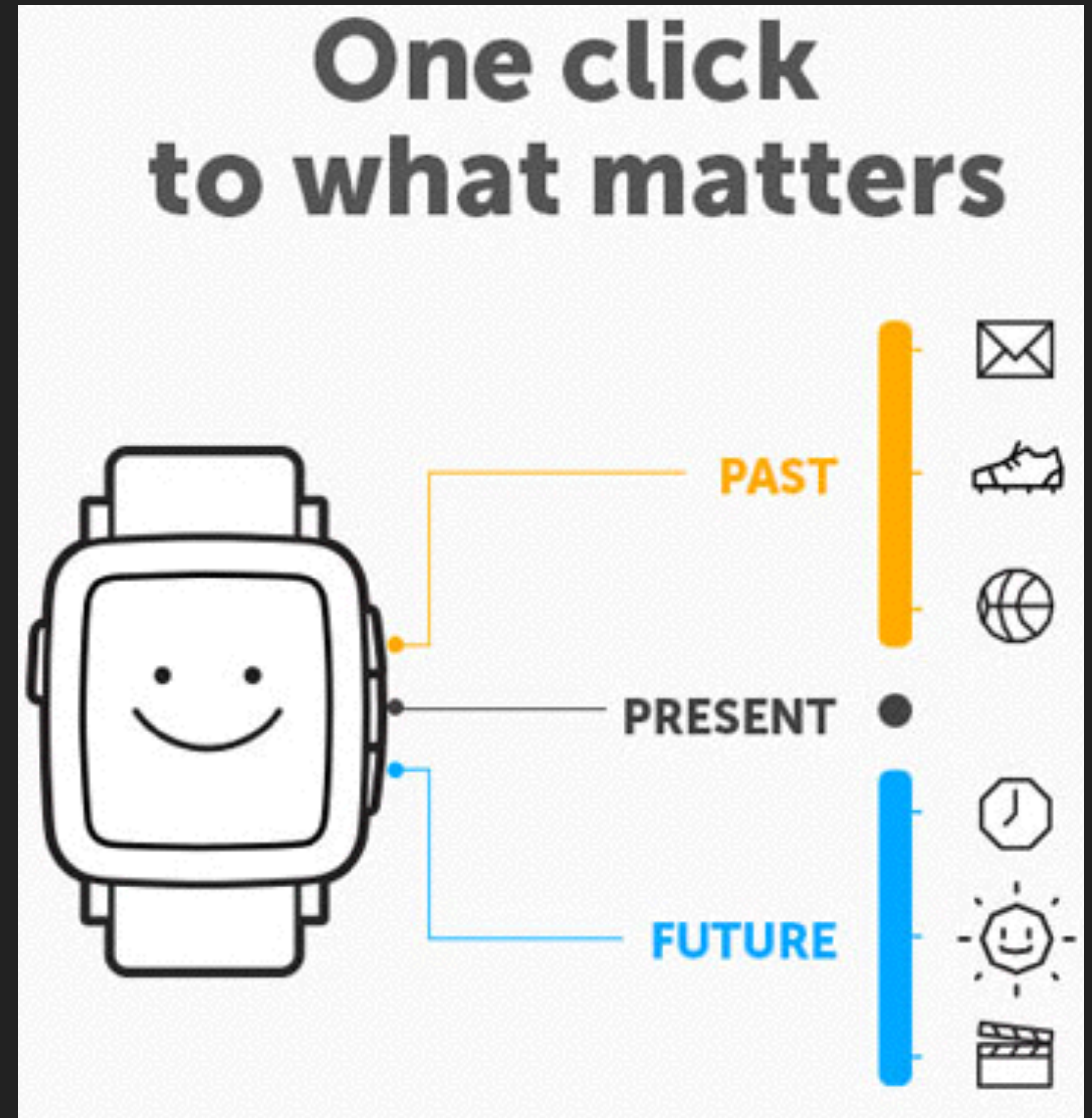
WHAT IS TIMELINE?

▸ Collection of JSON Objects

▸ RESTful Web Service

▸ Part of PebbleKit.JS / Pebble.JS

▸ 2 Contexts (Sandbox / Production)

▸ Layouts Available for different Data Types

▸ Highly (but not infinitely) Customizable

▸ Pins can be updated on the fly

▸ Variable Delivery Time (Up to 15 Minutes)

One click
to what matters

PAST

PRESENT

FUTURE
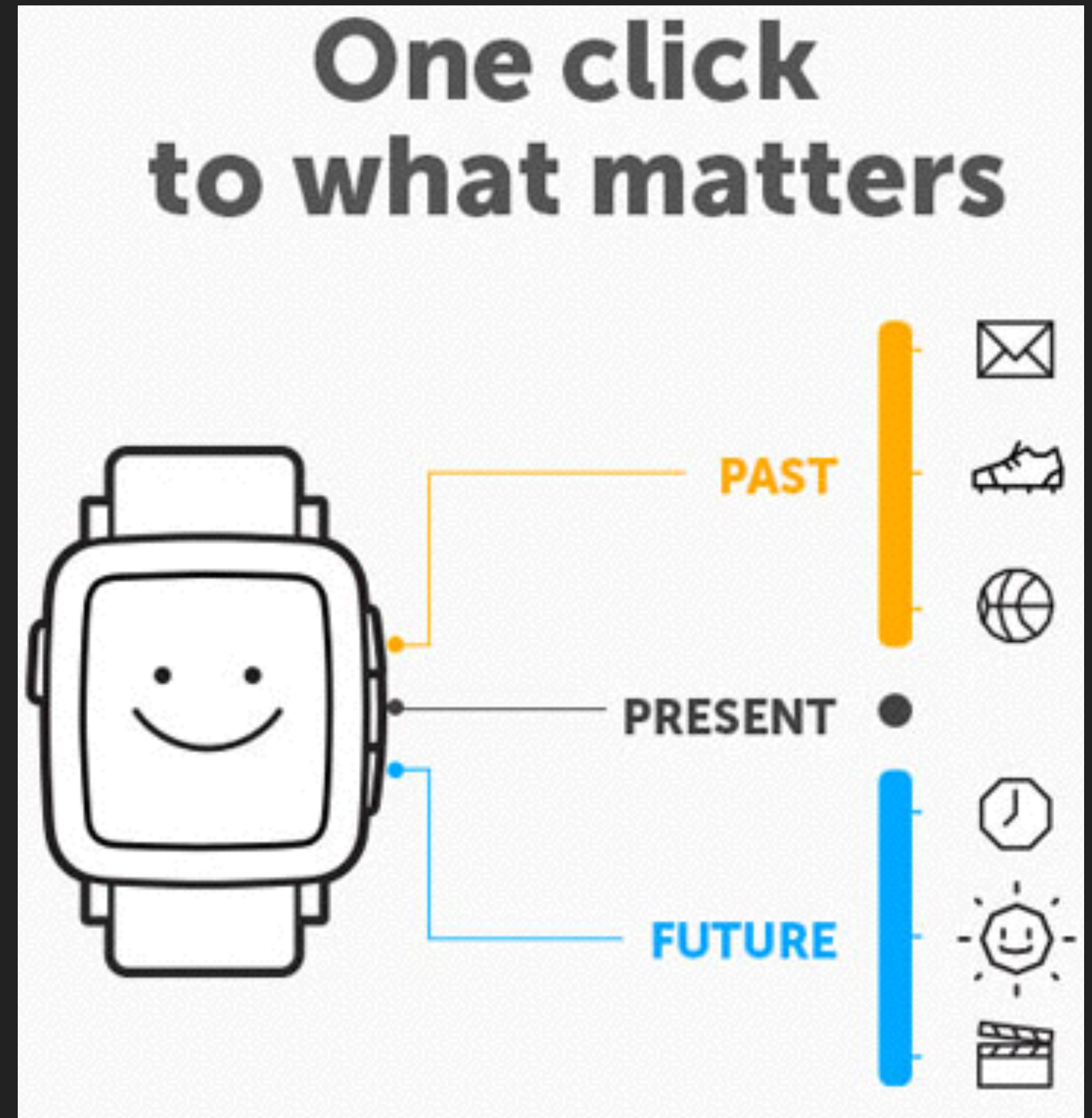
TIMELINE PIN ANATOMY
BASIC PIN


```
{
   "id": "example-pin-generic-1",
   "time": "2016-06-2T18:00:00Z",
   "layout": {
      "type": "genericPin",
      "title": "Hello World",
      "tinyIcon": "system://images/NOTIFICATION_FLAG"
   }
}
```
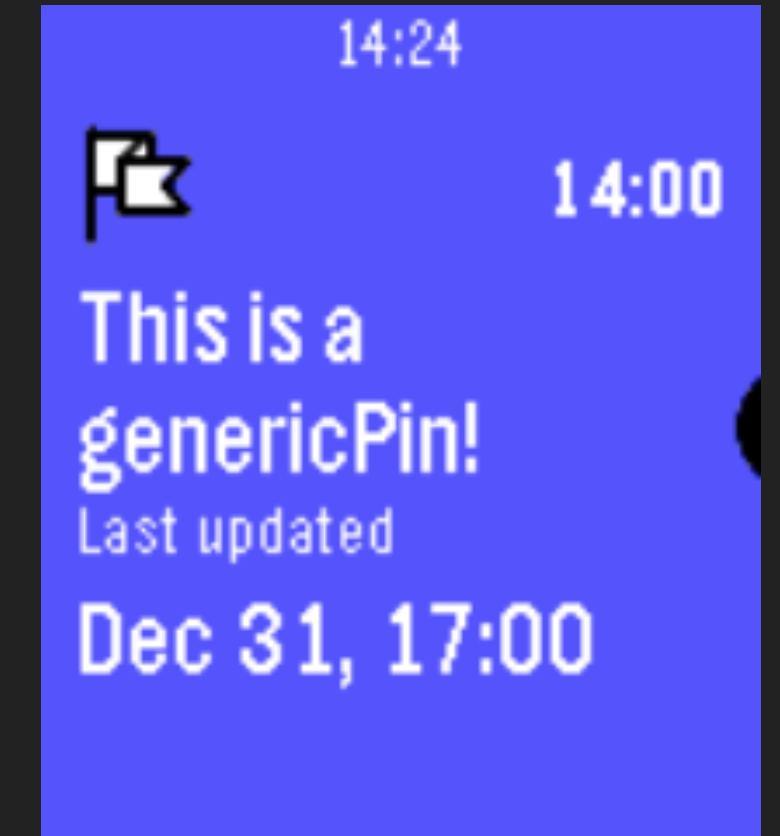
TIMELINE PIN ANATOMY
LAYOUT OBJECT

Field	Type	Function
`type`	String	The type of layout the pin will use. See *Pin Layouts* for a list of available types.
`title`	String	The title of the pin when viewed.
`subtitle`	String	Shorter subtitle for details.
`body`	String	The body text of the pin. Maximum of 512 characters.
`tinyIcon`	String	URI of the pin's tiny icon.
`smallIcon`	String	URI of the pin's small icon.
`largeIcon`	String	URI of the pin's large icon.

TIMELINE PIN ANATOMY
PIN LAYOUT TYPES

```
{
  "id": "example-pin-generic-1",
  "time": "2016-06-2T18:00:00Z",
  "layout": {
    "type": "genericPin",
    "title": "Hello World",
    "tinyIcon": "system://images/NOTIFICATION_FLAG"
  }
}
```

TIMELINE PIN ANATOMY
PIN LAYOUT TYPES

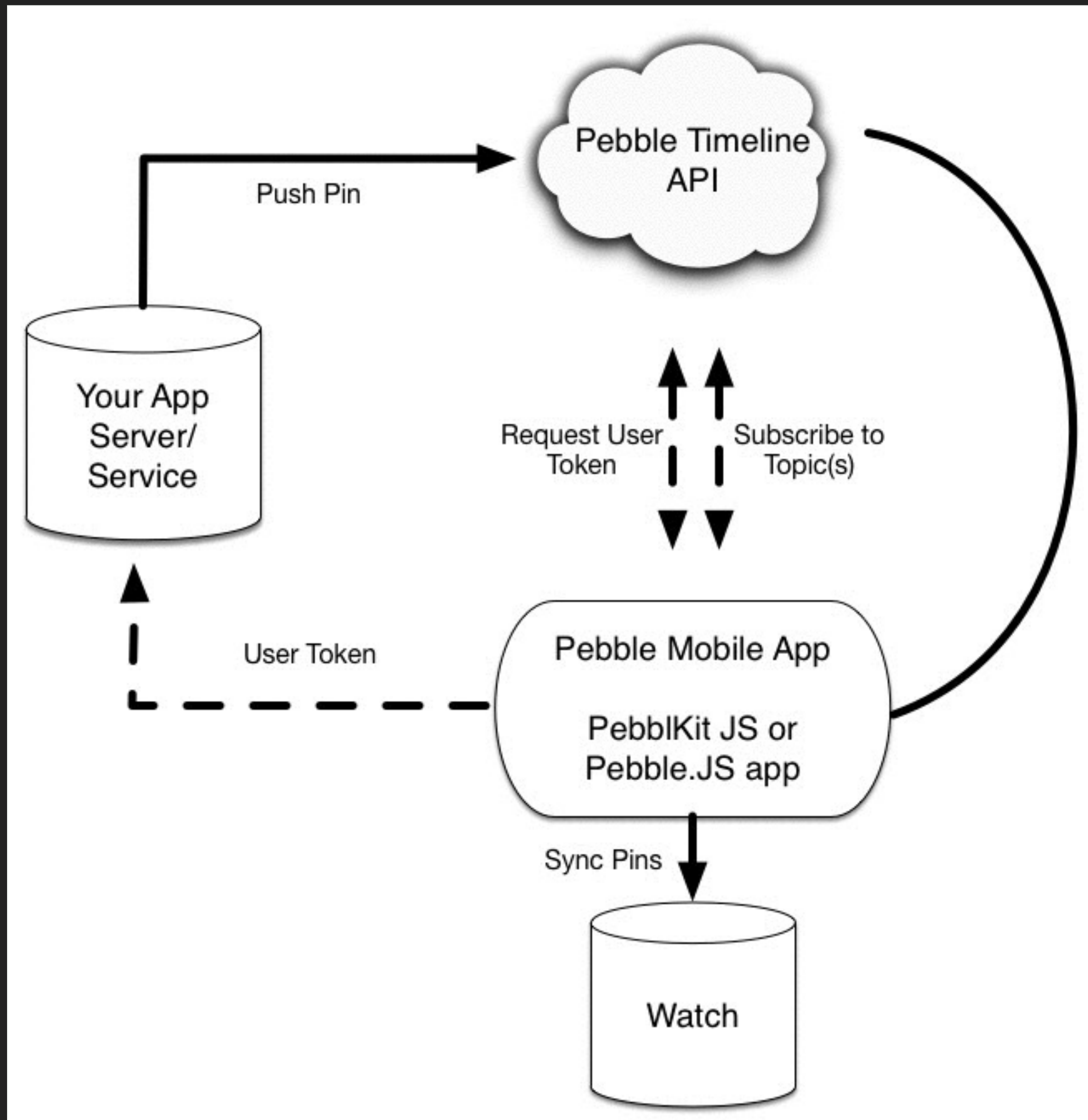Generic   Calendar   Sports   Weather

Property Lists Available at: https://developer.pebble.com/guides/pebble-timeline/pin-structure/#pin-layouts

PIN NOTIFICATION

```json
...
  "createNotification": {
    "layout": {
      "type": "genericNotification",
      "title": "Notification!",
      "tinyIcon": "system://images/NOTIFICATION_FLAG",
      "body": "A wild pin has appeared!"
    }
  }
}
```

TIMELINE ARCHITECTURE

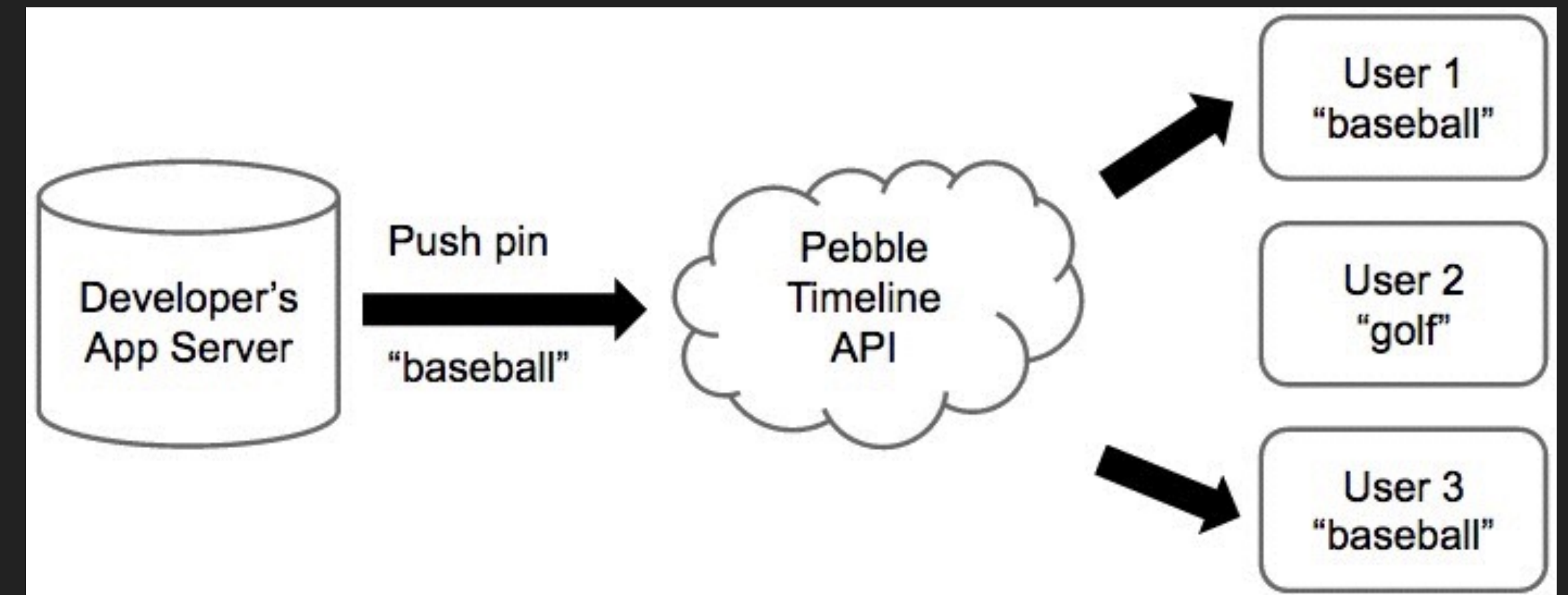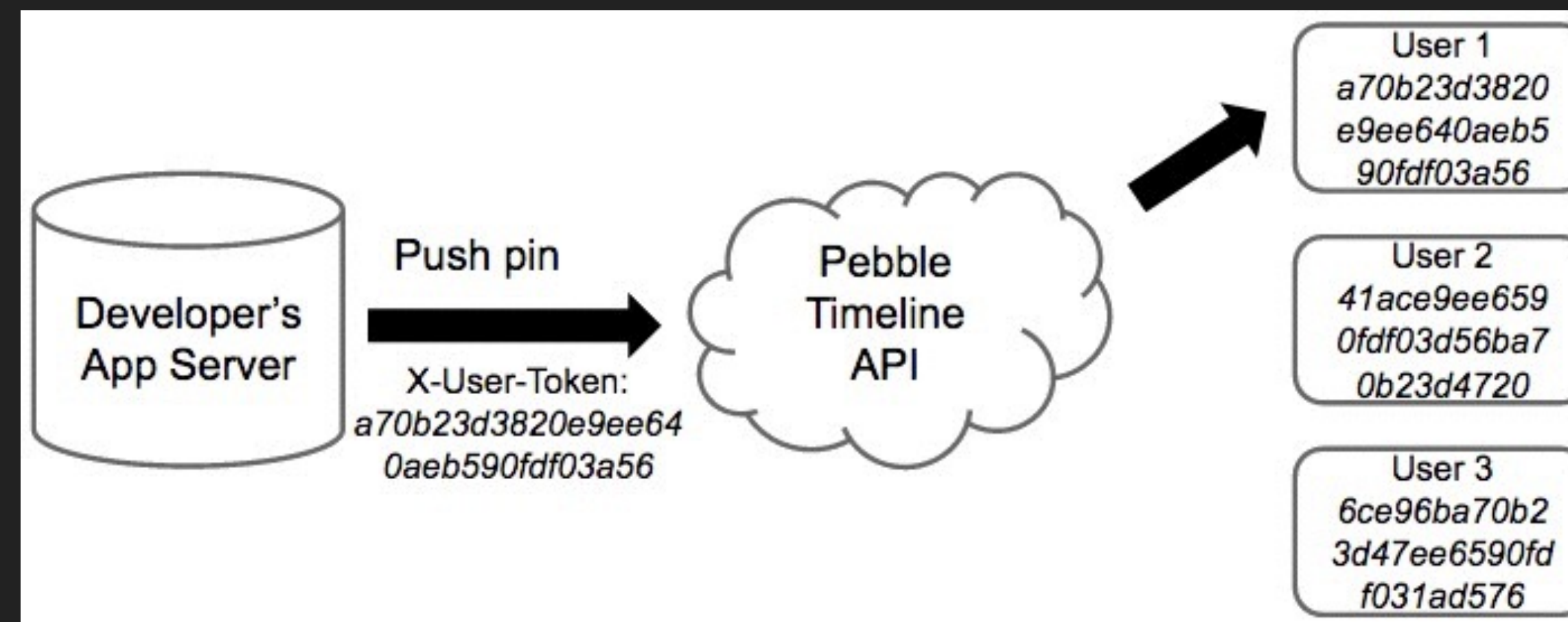## CLIENT/SERVER

CLIENT (WATCH) ONLY
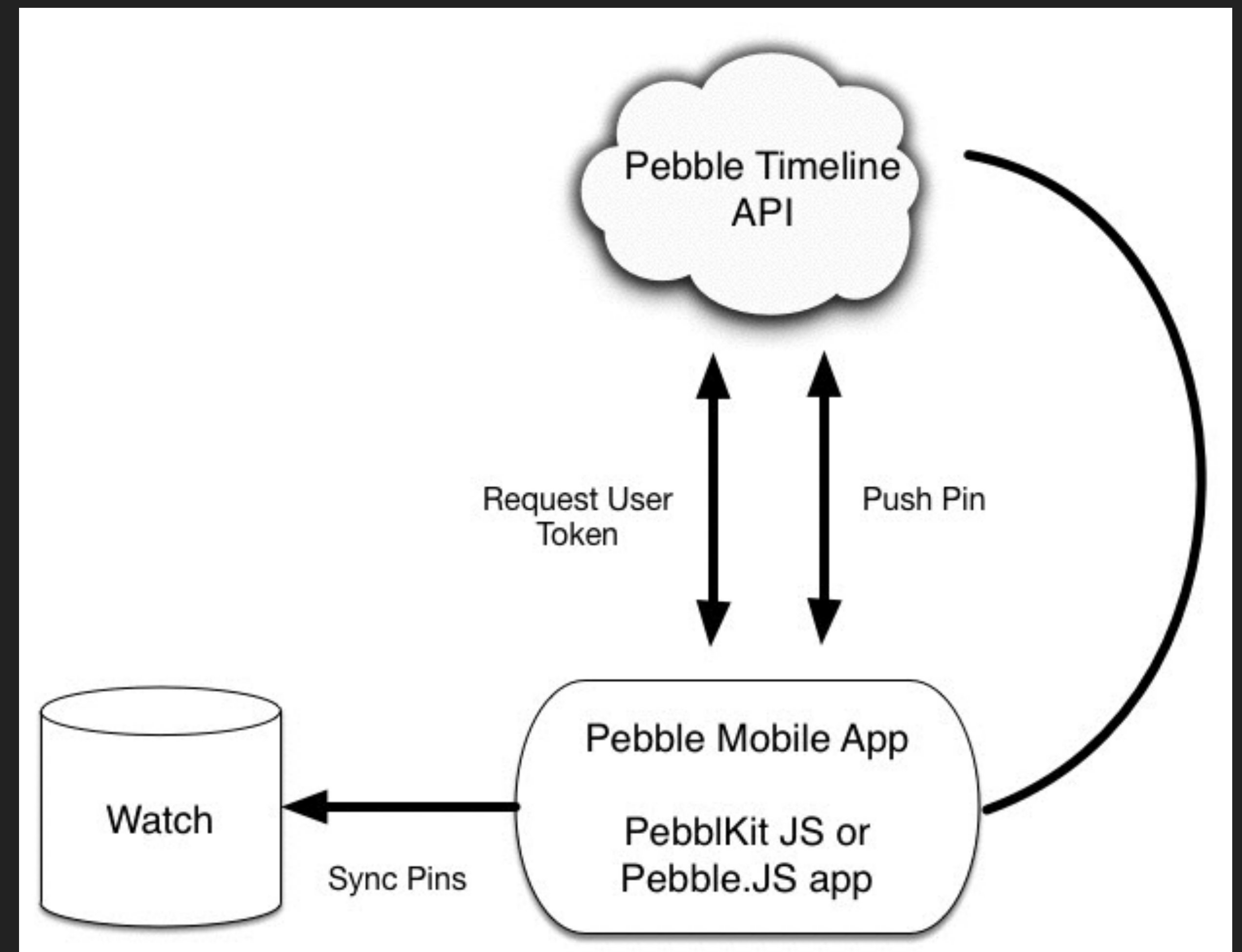
TIMELINE ARCHITECTURE
3 METHODS FOR SENDING PINS IN CLIENT/SERVER
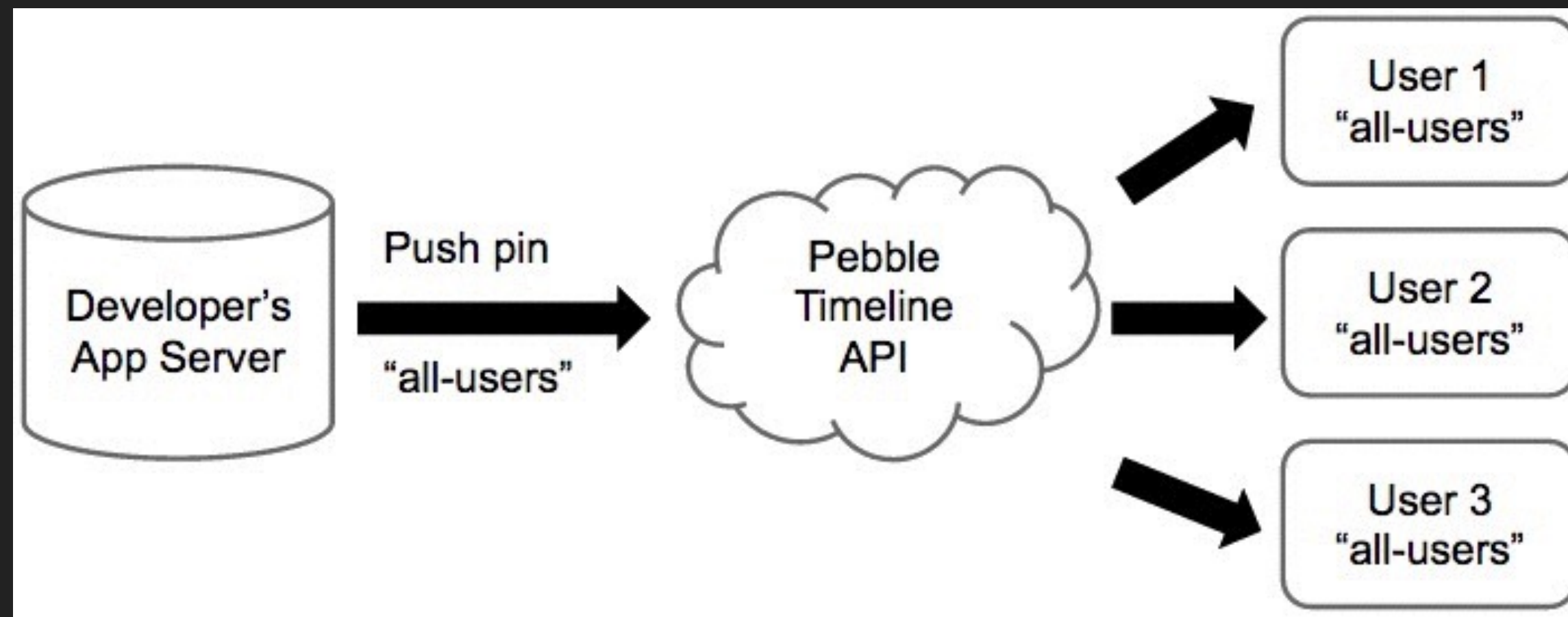
Target Everyone

Target Interests

Target Specific User

PUTTING IT ALL TOGETHER

FULFILLING PREREQUISITES FOR TIMELINE

```
$> pebble new-project MySuperAwesomeApp --javascript
$> pebble build && open build
```

OR

CREATE NEW PROJECT

PROJECT NAME — MySuperAwesomeApp

PROJECT TYPE — Pebble C SDK

SDK VERSION — SDK 3

TEMPLATE — Empty project

CREATE   CANCEL

COMPILATION **1**

GITHUB

SOURCE FILES ADD NEW

main.c

RESOURCES ADD NEW

LAST BUILD

STARTED: 2 June, '16 – 11:12

BUILD TIME: 6 seconds

2 **3**

RUN BUILD   GET PBW   BUILD LOG

FULFILLING PREREQUISITES FOR TIMELINE

BUILDING TIMELINE APP
SENDING PINS FROM JAVASCRIPT

```javascript
var timelinePin = function timelinePin(method, id, pin) {
  var req = new XMLHttpRequest();
  req.open(method, 'https://timeline-api.getpebble.com/v1/user/pins/' + id, true);
  req.setRequestHeader('Content-Type', 'application/json');
  req.setRequestHeader('X-User-Token', timeline_token);

  req.onload = function complete() {
    if (req.readyState === 4) {
      if (req.status === 200) {
        console.log(req.responseText);
      } else {
        console.log(req.responseText);
      }
    }
  };
  req.send(JSON.stringify(pin));
};
```

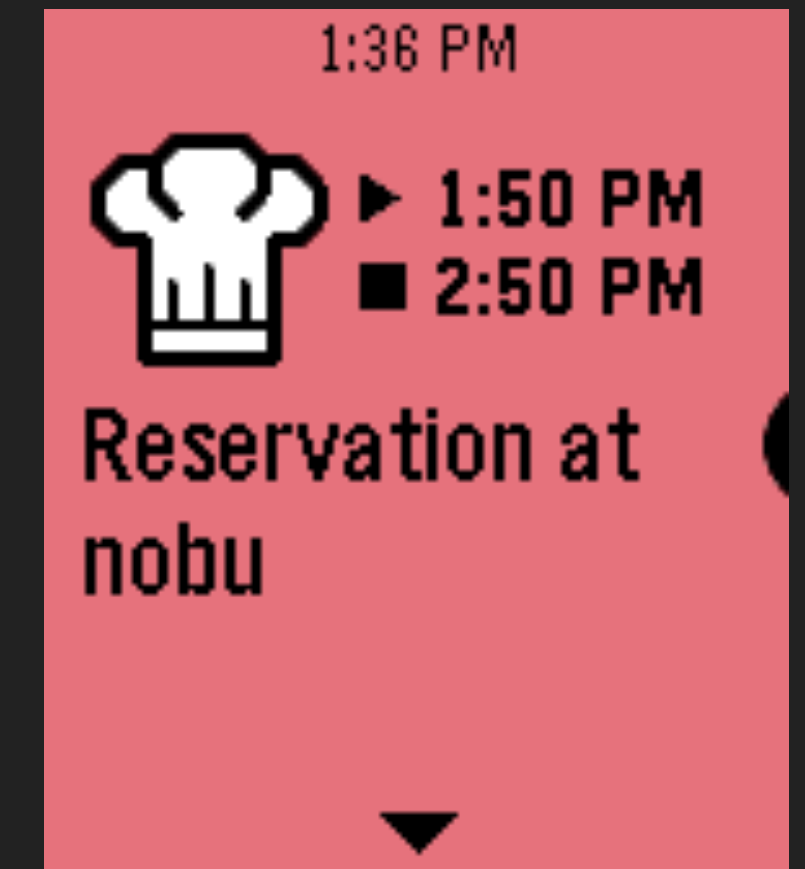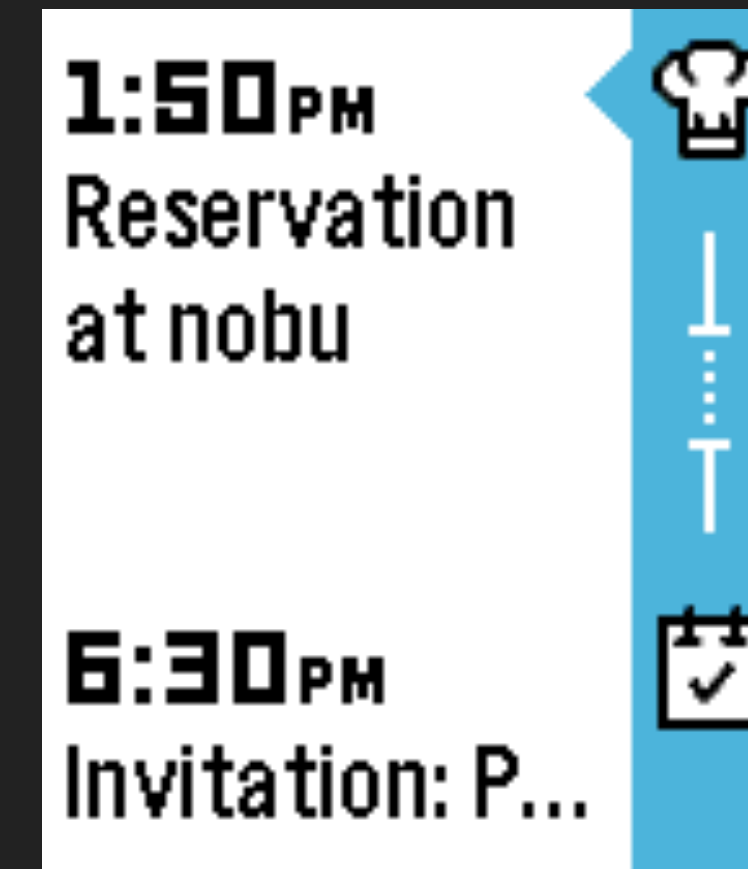# BUILDING TIMELINE APP

GETTING USER TOKEN

```javascript
var timeline_token;
Pebble.addEventListener("ready", function(e) {
  Pebble.getTimelineToken(function(token) {
    console.log('Timeline Token: ' + token);
    token = timeline_token;
  }, function(error) {
    console.log('Error getting timeline token: ' + error);
  });
});
```

```
>>>Timeline Token: UNBQLEoLtlTsToHzDviGC3IiGxqSrAMl
```

BUILDING TIMELINE APP

SEND PIN TO USER TOKEN

```javascript
var pin = {
  "id": "dinner-reservation-060216",
  "time": "2016-06-02T19:00:00Z",
  "duration": 60,
  "layout": {
    "type": "calendarPin",
    "title": "Reservation at nobu",
    "body": "Table for 2",
    "tinyIcon": "system://images/DINNER_RESERVATION"
  }
};
...
timelinePin('PUT', 'dinner-reservation-060216', dinnerReservationPin);
...
req.setRequestHeader('X-User-Token', timeline_token);
```

BUILDING TIMELINE APP
TOPICS

```javascript
Pebble.timelineSubscribe('wordOfTheDay', function (e) {
  console.log("Subscribed to The Word of the Day;
});
```

BUILDING TIMELINE APP
TOPICS

BUILDING TIMELINE APP

TOPICS

```
{
  "id": "wordOfTheDay-060216",
  "time": "2016-06-02T21:00:00.00Z",
  "layout": {
    "type": "genericPin",
    "title": "Word of the Day",
    "subtitle": "Catasterism",
    "body": "Noun\nA placing among the stars; a cataloguing or catalogue of the stars.",
    "tinyIcon": "system://images/HOTEL_RESERVATION"
  }
}


header = {
      'X-API-Key': 'SBtt4wrporypqzg1yb6bduzvwdryimxx',
      'X-Pin-Topics': 'wordOfTheDay'
   }
```
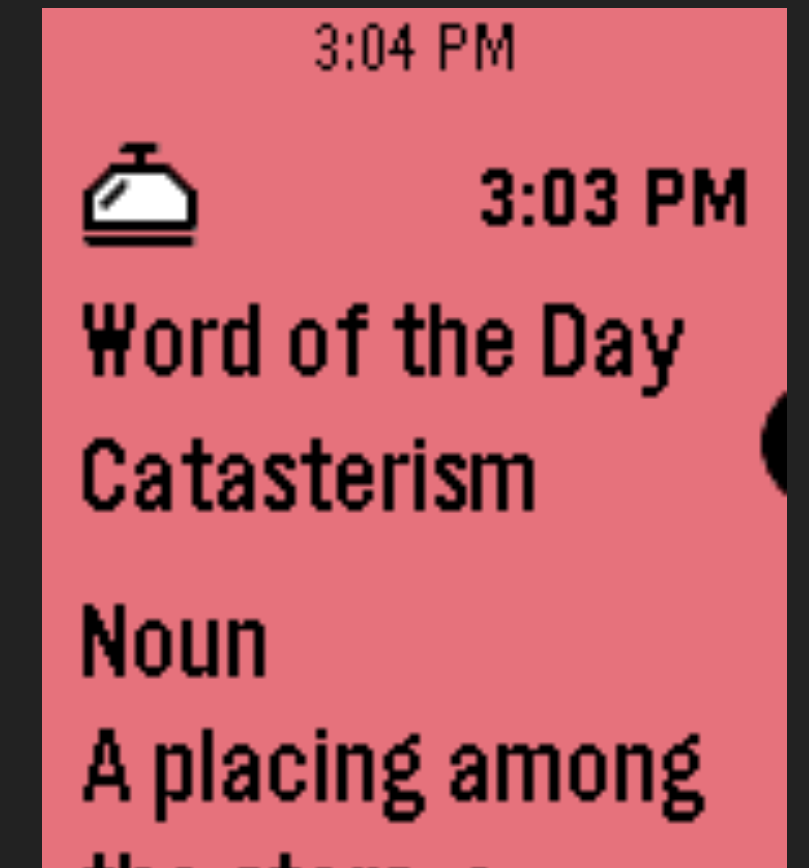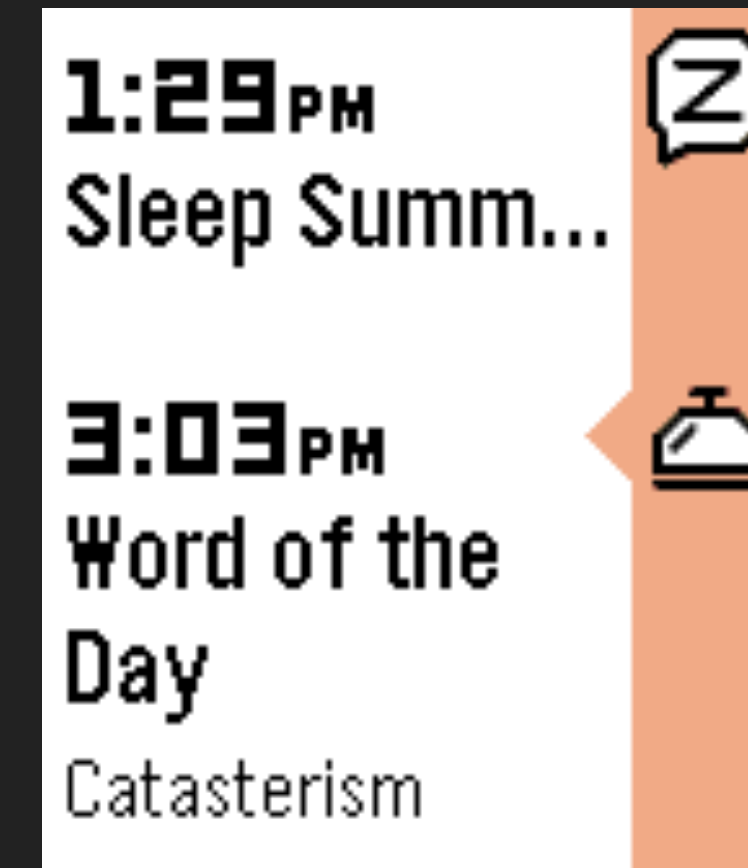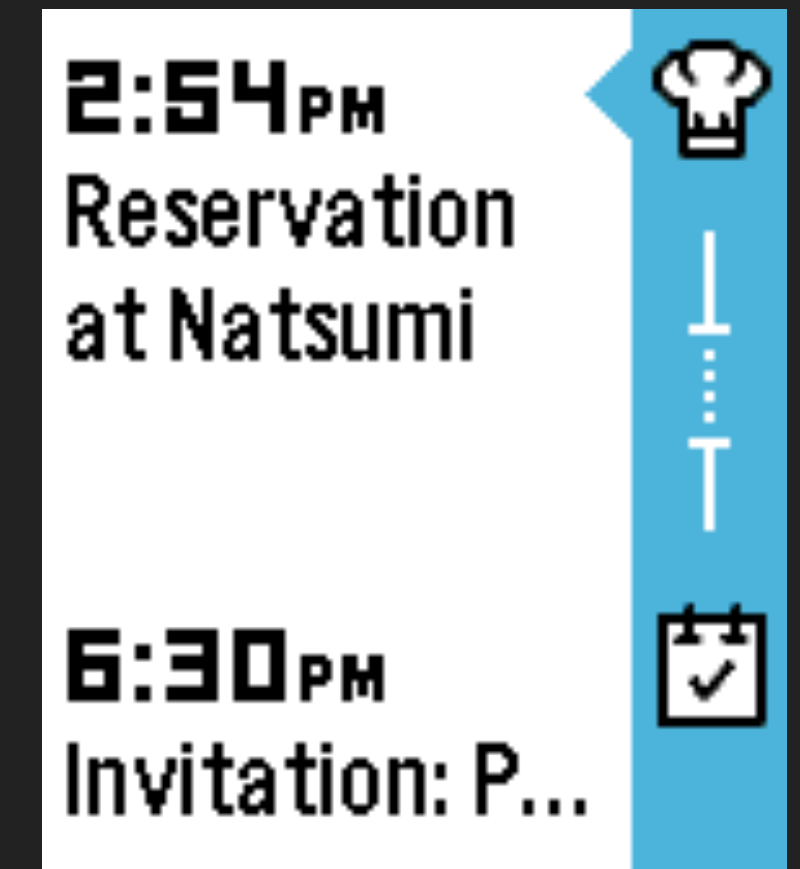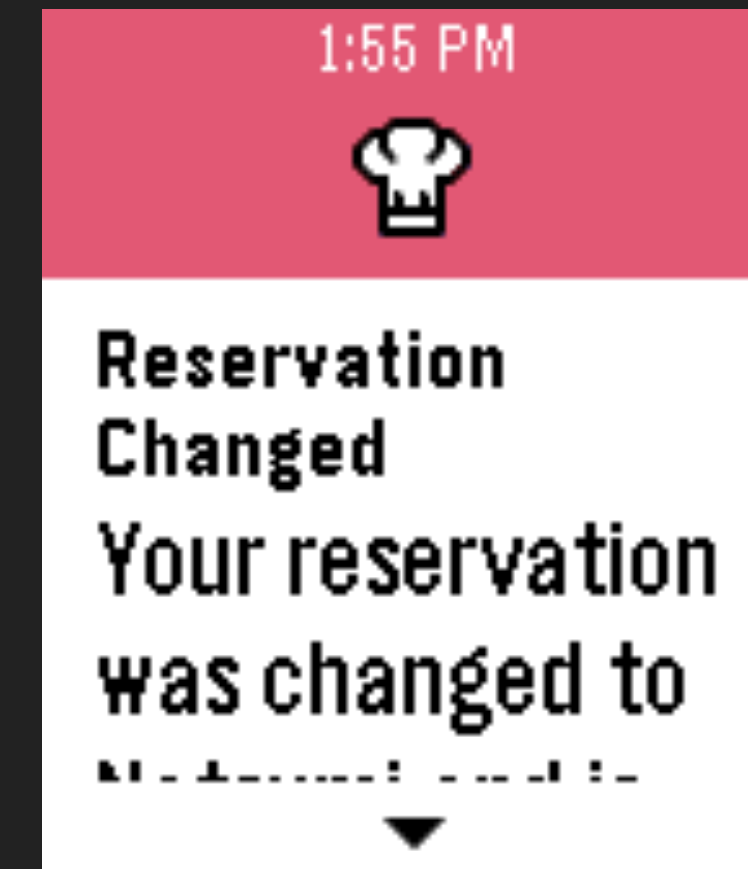
BUILDING TIMELINE APP

ADVANCED: UPDATE EXISTING PIN

```
var dinnerReservationPin = {
  "id": "dinner-reservation-060216",
  "time": "2016-06-02T20:00:00Z",
  "duration": 60,
  "layout": {
    "type": "calendarPin",
    "title": "Reservation at Natsumi",
    "body": "Table for 2",
    "tinyIcon": "system://images/DINNER_RESERVATION"
  },
  "updateNotification": {
    "layout": {
      "type": "genericNotification",
      "title": "Reservation Changed",
      "tinyIcon": "system://images/DINNER_RESERVATION",
      "body": "Your reservation was changed to Natsumi and is now at 8:00"
    }
  }
};

xhr('PUT', 'dinner-reservation-060216', dinnerReservationPin);
```

RESOURCES

Pebble Developer Docs: https://developer.pebble.com

Pebble Developer Subreddit: https://reddit.com/r/pebbledevelopers

Slack (Best Method): http://slack.pbldev.io

Q&A?

MAKE TIMELINE
GREAT AGAIN

FIND ME ....

 @EXIVA

 GITHUB.COM/EXIVA