# <Document Title>

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**Version Control**

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| --- | --- | --- | --- | --- |
| **Version No.** | **Version Date** | **Changes** | **Owner/ Author** | **Date of Review/Expiry** |
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Predix UI Concepts:

**Component** – User-interface element that allows you to add features or access services following consistent UX practices, standards and specification.

A web component is a user interface element that enables a user to perform a function or access a service. It defines the fundamental interactions between presentation, interaction and behavior with context, data-binding and services. Rendering of "sketch" (minimally-styled) and "Predix" (fully-styled) themes.

Ex: <px-datepicker><px-rangepicker><px-dropdown>

**Card** – Container that resides within the content area of the user interface. You can create interactions between components within an individual card, as well as interactions with other cards based on user context.

A card can receive and transmit events, and is both aware of and reactive to the context in which it resides. Components can interact within an individual card, and a card can interact with other cards. A developer can show and hide cards as needed.

Ex: <px-card>

**Deck** – Container that supplies simple one-dimensional layout control for cards and components arranged in a specified order. This control can originate from the deck itself.

<px-deck>

**View** – Visual summary of the information displayed in a web application. It consists of one or more decks that an application user can select at runtime to quickly digest information and take appropriate action.

<px-view>

**Open-Source Standards**

As a developer, you should understand the following open-source standards before using the Predix UI platform

**HTML5, CSS (Cascading Style Sheets), JavaScript**

**Developer Tools**

You should understand the following open-source tools before using the Predix UI platform:

* GitHub code repository

Github.buildge.com/PredixDEV/ <components>

* Node.js runtime environment

Use Node.js as a cross-platform runtime environment to build web applications. Node.js includes the **npm** utility to manage node modules such as the Bower package manager and the Gulp build system.

* Bower package manager

Use the Bower package manager to install the correct package versions needed to configure a web application (such as HTML, CSS, or JavaScript files) and their dependencies. Bower fetches and installs the required packages, then records the package dependencies in a **bower.json** manifest file.

* Gulp build system

Use the Gulp build system to start a web server that runs tasks and serves files to build a web application. This web server can be accessed by entering <http://localhost:5000/> in a web browser.

* CSS framework
* SASS (Syntactically Awesome Stylesheets) language

Bower install https://predixdev.github.io/<px-repository> --save

It will save the px-component and save in bower-components folder and add path in bower.json file

Before you begin with View Service go through this link :

<https://www.predix.io/docs/?r=145978#Fe6g4Bs7>

**Questions & Answers:**

**4-5 questions on cards & decks API & card/deck definitions?**

1. What are Deck / Card?

Ans: Please read above definitions

1. How do you create a card?

Ans: <px-card header-text="Predix UI Seed" icon="fa-suitcase"> </px-card>

1. what is the request format to post Decks to view service

Ans:

1. How do you use px-tables after importing into platform

Ans: I answered “using in HTML “, not sure if it is correct

1. Command to run predix seed in local

Ans: if grunt commands (grunt serve) or Gulp commands (gulp)

1. what are the scopes of view services

Ans: GET, POST,PUT,DELETE

1. what is the scope required to view decks

Ans: <https://www.predix.io/docs/?r=248612#PD6yUBX>

1. How wo use SASS button style in html

Ans: @import "px-buttons-design/\_objects.buttons.scss";

<https://www.predix.io/docs/?r=529636#IiGhwMMD>

1. Api to get all decs

Ans: <https://www.predix.io/docs/?r=248612#PD6yUBX>

1. Api to create cards and associate with decs

Ans: <https://www.predix.io/docs/?r=248612#PD6yUBX>

1. Default configuration file name

Ans: manifest.yml

1. Syntax to bing service in manifest.yml

Ans:

Manifest files are written in the YML language.

The cf push command searches the current directory for a manifest file, unless you specify another path

with the -p option.

The services line (see screenshot) lists the services to be bound to your application. Using this takes place of the bind services command.

The manifest file allows for more options than the cf push command and a full explanation of these can be found online, but is beyond the scope of this class.

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applications:

- name: MHM

buildpack: staticfile\_buildpack

memory: 128MB

services:

- predix\_seed\_bing\_store

1. Deck API Syntax

Ans:

1. How many cards can be available in single deck

Ans: multiple

1. Around 3 questions I got to tell the format of data that should be provided in the API. I answered them and JSON format. Just to confuse, I though they ask this question

**More Questions:**

1. What is webcomponents-lite and how to use it? What is polyfill?
2. What is Predix UI Template?

Ans : Predix UI Templates

Repository Description

px-card Container residing within the content area of the screen.

px-dashboard Component that renders a deck with a given URL in a web browser.

px-deck Component that contains a collection of card objects.

px-login Displays login/logout button.

1. What all are Predix UI Mobile components?

Ans:

Repository Description

px-action-sheet User interface element slides up from the bottom of the screen to reveal more content.

px-drawer Navigation drawer that can slide in from the left, right, top, or bottom.

px-table-view User interface element that displays list data.

1. What is context?

Context – defines scope of the information to be passed through to views, cards, and widgets for display.

Usually think of context based on user, group, role, language, location. The primary use case for context in Predix is an asset or group of assets.

1. What is widget?

Widget – container for a functional piece of software. (Ex: bar chart,etc)

Individual containers that display data

1. What is partials in SASS ?

Partials are Sass files containing CSS snippets for re-use in other Sass files. This helps you modularize your CSS and eases maintenance.

1. What is Import ?

The import in CSS lets you split CSS into smaller pieces, but splitting this way creates more HTTP requests.

Sass combines what you want to import with the file you’re importing and serves it as a single CSS file to the browser.

1. The Predix UI CSS libraries are implemented using the **incuit.css** CSS framework that provides standardized code to include in a web application.