# Platform

## Kernel

### Dependency injection

#### IoC container under-the-hood

#### Wrapper composition API

### Application composition

#### Pluggable modules and features (both business and technology stack)

#### Late multi-dimensional composition of models

#### Late pattern-based compilation of model-based components

#### Subject-oriented horizontal composition of objects (“mix-ins”)

#### Aspect-oriented handling of cross-cutting concerns

#### Multi-dimensional configuration

### Execution lifecycle

#### Startup/shutdown orchestration of components + crash-only design

#### Active/passive orchestration of components

#### Lifecycle participants pipeline

### Diagnostics

#### Application-specific logging APIs

#### Context-rich logging for production intelligence

#### Built-in zero-performance-cost always-on profiler

#### Tracing of concurrent resource access & execution

#### Aggregations and thresholds

#### Alerts and escalations

### Common helpers

## Core Services

### Claims-based authorization and access control

### Sessions

### Messaging

### Caching

### Localization

## Scalability & Reliability Foundation

### Zero-configuration reliable clusters

### Active/passive redundancy with elections

### Real-time replication/synchronization

### In-memory data grid

### Dynamic node membership

### Elastic grow/shrink on demand

# Application Framework

## Domain Model

### Object contracts

### Full-power OOP

### Multi-dimensional extensibility

### Domain-driven design

#### Persistence abstraction

#### Domain context

#### Entity

#### Value object

#### Query Script

#### Transaction Script

### REST over domain

## Processing Model

### Unit of work

### Actors

### Workflows

### Rules

### Jobs

### Aggregations

## Communication Model

### Endpoints

### Reliable messaging

### Publish/subscribe

## User Interface Model

### UIDL

### Toolbox

### Extensibility

# Building Block Domains

## Infrastructure Domains

### DevOps

### Security

### Globalization

## Business Domains

### E-Commerce

### CRM

### Accounting

### Stack management

### Forex

### Media marketing

### Affiliation

### Ticketing (transportation / entertainment)

### Online gaming

# Technology Stack

## Database

### ODM

#### Mongo DB – MongoCSharpDriver

#### Mongo DB – NWheels ODM impl

### ORM

#### Entity Framework

#### NHibernate

#### SQL Server - NWheels ORM impl

#### MySQL - NWheels ORM impl

## User Interface

### Web

#### Theme-agnostic JavaScript SPA framework

#### Pluggable jQuery+Bootstrap theme set

### Desktop

#### WPF 🡪 Windows

#### ? 🡪 Linux

#### ? 🡪 Mac

### Mobile

#### Xamarin 🡪 Android, iOS, Windows Phone

#### React Native 🡪 Android, iOS

### Smart TV

#### Smart TV Alliance SDK 🡪 LG, Toshiba, TP Vision

#### Samsung Smart TV SDK 🡪 Samsung <= 2015

#### Samsung Tizen SDK 🡪 Samsung >= 2015

### IVR

#### Dialogic

## Communication

### SOAP

#### WCF

### Raw TCP

#### NWheels RPC impl

### OData

#### NWheels OData impl

### HTTP

#### ASP.NET Web API

#### Nancy Fx

### Custom protocols

## Scalability

### Service discovery

#### SLP 🡪 Windows, Linux, MAC(?)

### Distributed consensus with elections

#### Raft – NWheels impl

### Containerization

#### Docker

### Cloud platforms integration

#### Amazon AWS

#### Microsoft Azure

#### Google Cloud

#### Rackspace

## Services

## Libraries

# Developer Resources

## NWheels Web Site (nwheels.org) – powered by NWheels

### Landing page + introduction

### Membership registration

### Playground

#### In-place edit and run applications

#### Tutorial starter applications

#### Download as Visual Studio solution / Visual Studio Code folder

#### Share applications and snippets (for registered members)

#### Version control (for registered members)

#### Gallery of shared applications and snippets

### Documentation

#### Getting started

#### FAQ

#### How do I…

#### Feature explorer (\*) with status/documentation/examples/discussion/votes

#### Error explainer (catalog / access by error URL with specific values)

### Open project

#### Contributors Guide

#### Contributors hall of fame

#### Backlog explorer (\*) with status/documentation/examples/discussion/votes

#### Sprint planner/board

#### Issue tracker

#### Build machine

#### Releases 🡪 Nuget.org