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New web-based ROOT GUI

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RWebWindow class builds the core functionality for web-based widgets in ROOT. It combines all necessary server-side components and provides communication channels with multiple JavaScript clients.

Following new ROOT widgets are build based on RWebWindow functionality:

- RCanvas – ROOT7 canvas for drawing all kinds of primitives, including histograms and graphs
- RBrowser – hierarchical objects and files browser with integrated viewer
- RFitPanel – fit panel for ROOT6/ROOT7 data classes
- REve – interactive event display
- RGeomViewer – geometry viewer
- TWebCanvas – lightweight web display for ROOT6 TCanvas

OpenUI5 is used to build user interfaces like combo boxes, menus, dialogs in all web-based widgets. Special component was implemented to provide efficient and scalable hierarchy browser.

Consider for promotion

Yes

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